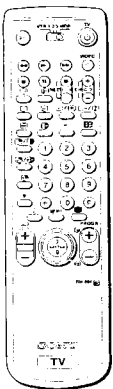
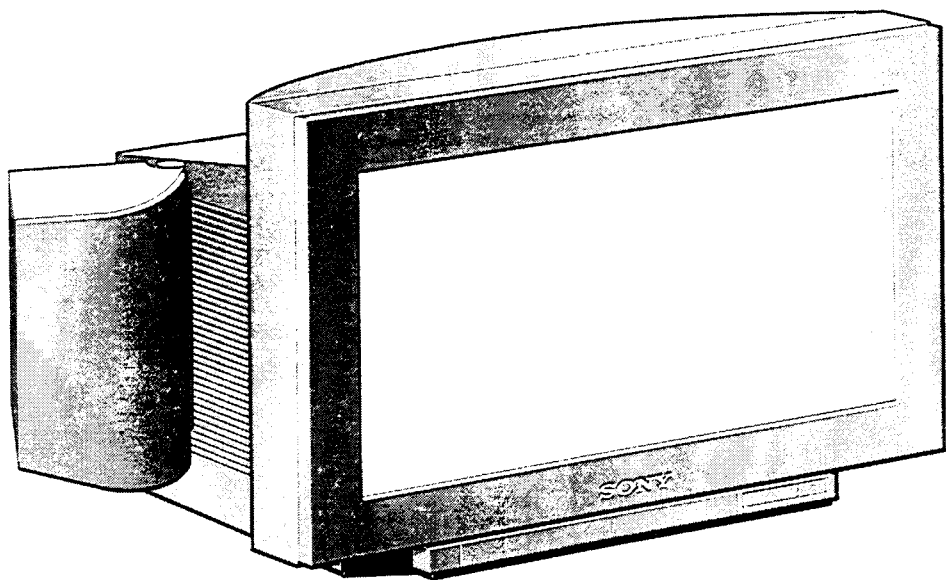


SERVICE MANUAL

GE-1 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-28FD1E	RM-864	AEP	SCC-N46B-A	KV-32FD1E	RM-864	AEP	SCC-N46A-A
KV-28FD1K	RM-864	OIRT	SCC-N47B-A	KV-32FD1K	RM-864	OIRT	SCC-N47A-A



TRINITRON® COLOR TV
SONY®

KV-28FD1/32FD1

ITEM	MODEL	Television System	Channel Coverage	Colour System
AEP		B/G/H, D/K L, I	L SECAM VHF: F2-F10 UHF: F21-F69 TV CABLE TV (1) VHF: B-Q UHF: S21-S44 PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 PAL I UHF: B21-B69 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: S1-S41, UHF: S01-S05	PAL, PAL+, SECAM NTSC3.58/4.43 (video input only)
OIRT		B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: S1-S41, UHF: S01-S05	PAL, PAL+, SECAM NTSC3.58/4.43 (video input only)

MODEL	28FD1E	28FD1K	32FD1E	32FD1K
Power Consumption	180W	180W	180W	180W

SPECIFICATIONS

Picture Tube	Super Trinitron WIDE
KV-28FD1	Approx. 71 cm (28 inches) (Approx. 66 cm picture measured diagonally) 110° deflection
KV-32FD1	Approx 82 cm (32 inches) (Approx 76 cm picture measured diagonally) 110° deflection

Rear/Front Terminals

[REAR]

- 1 21-pin Euro connector (CENELEC standard)
 - Inputs for audio / video signals
 - Inputs for RGB
 - Outputs of TV video and audio signals
 - ↔ 2/ ↔ 2 21-pin Euro connector
 - Inputs for audio and video signals
 - Inputs for S video
 - Outputs for audio and video signals (selectable)
 - ↔ 4/ ↔ 4 21-pin Euro connector
 - Inputs for audio and video signals
 - Inputs for S video
 - 15 pin Euro connector
 - Inputs for RGB
 - ↻ 3 Audio inputs - phono jacks
 - ↻ 3 S video input - 4 pin DIN
 - ↻ Audio outputs (variable) - phono jacks
- External speaker terminals : 2-pin Din (5)

[FRONT]

- 15 pin Euro connector
- Inputs for RGB
- ↻ 3 Video input - phono jack
- ↻ 3 Audio inputs - phono jacks
- ↻ Audio outputs - phono jacks
- ↻ 3 S video input - 4 pin DIN
- ↻ Headphone jack - stereo minijack

Sound output	2x30W (music power), 2x15W (RMS)
--------------	-------------------------------------

Dimensions

KV-28FD1	754(718 no speaker) x501x520mm approx.
KV-32FD1	846(812 no speaker) x561x550mm approx.

Weight

KV-28FD1	Approx. 51 kg
KV-32FD1	Approx. 69 kg

Supplied accessories	Remote Commander RM-864 (1) R6 batteries (2)
----------------------	-------------------------------------------------

Other features

Digital comb filter (High resolution)
 FASTEXT, DNR (Digital Noise Reduction)
 Dolby Digital Surround Sound System, 100Hz Digital Plus
 Graphic Equalizer, PAP (Picture and Picture)
 PAL plus, Multi PIP
 NICAM stereo

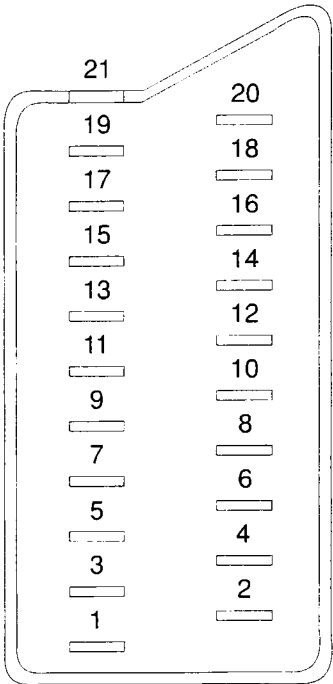
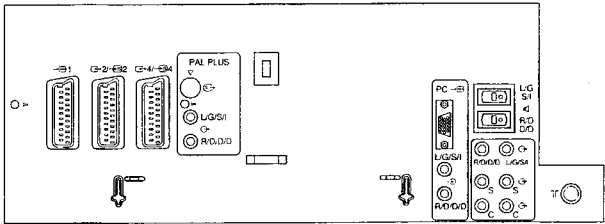
[RM-864]

Remote control system	Infrared control
Power requirements	3V dc (2 batteries) R6 (size AA)
Dimensions	Approx. 210x56x24 mm (w/h/d)
Weight	Approx. 110 kg (Not including battery)

Design and specifications are subject to change without notice.

Model name Item	KV-28FD1E	KV-28FD1K	KV-32FD1E	KV-32FD1K
PIP	OFF	OFF	OFF	OFF
MPIP	ON	ON	ON	ON
Picture & Text	ON	ON	ON	ON
Rotation Coil	ON	ON	ON	ON
VM Set (Velocity Modulation)	ON	ON	ON	ON
PAL +	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON
Scart 4	ON	ON	ON	ON
Pal Plus Out	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON
AKB in 16:9 mode	ON	ON	ON	ON
TXT	ON	ON	ON	ON
FLOF	ON	ON	ON	ON
TOP	ON	ON	ON	ON
Norm B/G/H	ON	ON	ON	ON
Norm I	ON	OFF	ON	OFF
Norm D/K	ON	ON	ON	ON
Norm L	ON	OFF	ON	OFF
Language Preset	Spanish	OIRT	Spanish	OIRT

21 pin connector (→ 1)



Pin No.	1	2	4	Signal	Signal Level
1				Audio output B (Right)	Standard level : 0.5V rms Output impedance : Less than 1k ohms*
2				Audio input B (Right)	Standard level : 0.5V rms Output impedance : More than 10k ohms*
3				Audio output A (Left)	Standard level : 0.5V rms Output impedance : Less than 1k ohm*
4				Ground (Audio)	
5				Ground (Blue)	
6				Audio input A (Left)	Standard level : 0.5V rms Output impedance : Less than 10k ohm*
7				Blue input	0.7 ± 3dB, 75 ohms, positive
8				Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More than 10k ohms Input capacitance : Less than 2nF
9				Ground (Green)	
10				Open	
11				Green	
12				Open	
13				Ground (Red)	
14				Ground (Blanking)	
15				Red input	0.7 ± 3dB, 75 ohms, positive
				(S signal) chroma input	0.7 ± 3dB, 75 ohms, positive
16				Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75 ohms
17				Ground (Video output)	
18				Ground (Video input)	
19				Video output	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
20				Video input	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
				Video input Y (S signal)	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
21				Common ground (plug, shield)	

○ Connected ● Not Connected (Open) * at 20Hz - 20kHz

Pin No.	Signal	Signal Level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm, positive Sync. 0.3V -3 + 10dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive Sync.

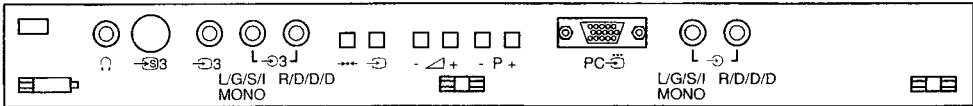


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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.


ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

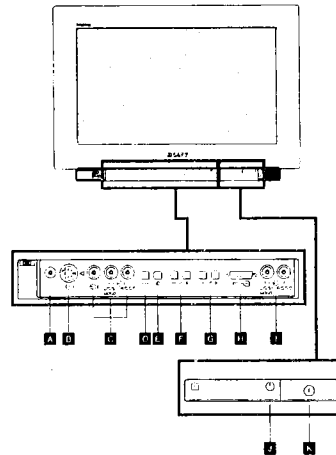
The operating instructions mentioned here are partial abstracts from the Operating Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Overview

This section briefly describes the buttons and controls on the TV set and on the Remote Commander. Please open the flaps at the front and at the back of the Instruction Manual for detailed illustrations of the Remote Commander and the TV set. Letters in boxes refer to the buttons and connectors on the TV set, numbers in circles to the buttons on the Remote Commander. For more information, refer to the pages given next to each description.

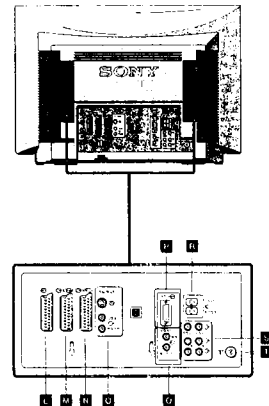
TV set – front

Reference and Symbol	Name	Refer to page
A	Headphones jack	54
B	S video input jack	63
C	Input jacks (video, audio)	63
D	Reset button	45
E	Input mode button	45, 63
F	Volume control	45
G	Programme buttons	45
H	PC-Interface (VGA-connector)	63
I	PC: Audio phono jacks	63
J	Standby mode indicator	45
K	Main power switch	45



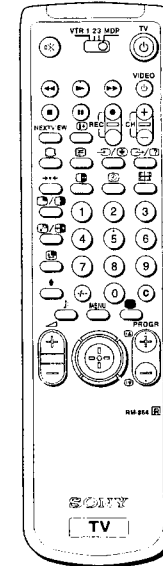
TV set – rear

Reference and Symbol	Name	Refer to page
L	21-pin Euro connector	63
M	21-pin Euro connector	63
N	21-pin Euro connector	63
O	PAL PLUS output connectors (S video, Audio)	64
P	PC-Interface (VGA-Connector)	63
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S	External speaker terminals	41
T	Aerial socket	42



Remote Commander

Reference and Symbol	Name	Refer to page
1	Muting on/off button	45
2	VCR operation	64
	Video equipment selector	64
	Video equipment operation buttons	64
	VIDEO CH +/-	
3	On-screen display button	45
4	Electronic Programme Guide On/Off	45, 56
5	Teletext button	45, 60
6	TV power on/TV mode/Teletext off button	45
7	PAP freeze button	59
8	Picture reset button	45
9	PAP on/off button	59
10	PAP Swap button	59
11	No function on this set	
12	PAP source selector	59
13	Double digit entering button	45
14	Sound mode button	54
15	Menu on/off button	46
16	Volume control buttons	45
17	Joystick for Menu selection	46
	Press to confirm selection (OK function)	
18	TV standby button	45
19	Output mode selector	63
20	Teletext: Reveal button	60
21	Input mode selector	45, 63
22	Teletext: Freezing the subpage	60
23	Time display button	45
24	Screen format button	45
25	Number buttons	45
26	Direct channel entering button	45
27	Picture mode button	54
28	Programme buttons	45
29	Teletext: Page up/page down buttons	60



Basic Operation

Step 1 Installation

A Connecting the Speakers

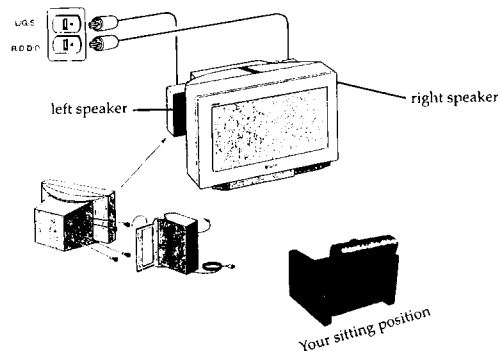
- ! Before first switching the TV on, make sure to connect the speakers to the TV.
- When using your own speakers, make sure they are at least 8 ohms impedance and magnetically shielded.

You have two possibilities to enjoy Dolby® ProLogic Surround broadcasts:

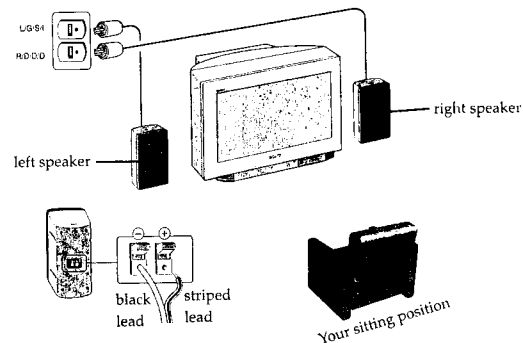
1 Virtual Mode

Virtual mode is a simulation of Dolby® ProLogic Surround using the two front speakers.

a) Connect the speakers provided only:



b) Connect your own speakers:



*Manufactured under license from Dolby Laboratories Licensing Corporation.
»Dolby«, »Pro Logic« and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Installation

2 Pro Logic

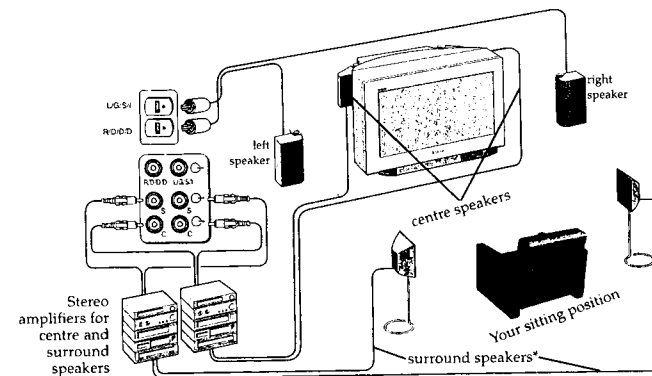
Dolby Pro Logic Surround normally requires 5 speakers:

One or two centre speakers to anchor the stable sound image such as dialogues to the TV screen.

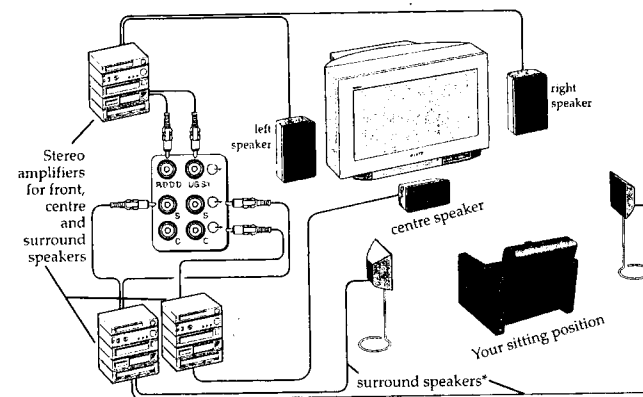
Left and right front speakers for the normal two channel stereo or bilingual broadcasts.

Surround speakers for the special effects created by the surround channels.

a) Connect the speakers provided plus optional speakers via amplifiers:



b) Connect your own speakers via amplifiers:

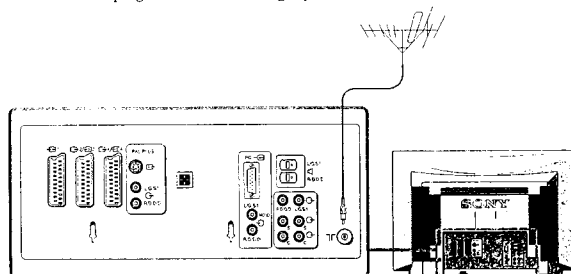


* For the best sound effect place the surround speakers one meter above your listening position.

Installation

B Connecting the Aerial

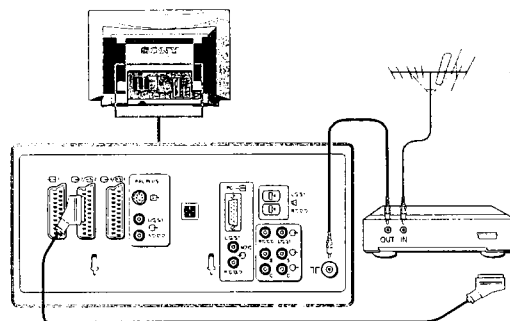
(If you connect a VCR, skip to step C)
Insert the aerial plug of the aerial cable tightly into the aerial socket **T**.



C Connecting VCR

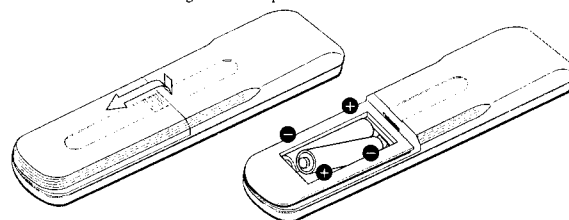
We recommend that you tune in the VCR signal to the programme position »0«.
Use the preset function »Manual Programme Preset« (page 46) to do this.

- For Smartlink operation: Make sure to connect your VCR to **C-2/-32M**, using a fully-wired 21-pin scart cable.



D Inserting the batteries into the Remote Commander

Insert the batteries checking the correct polarities.



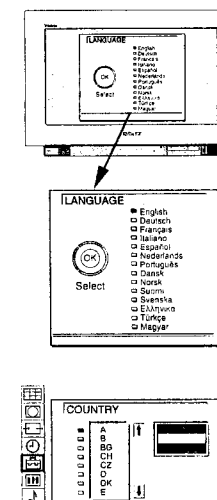
- Respect your environment! Dispose of used batteries in an environmental friendly way.

Step 2 Basic Presetting

A Choosing the Menu Language and the Country

Using this function you select the language of the menu screens. Also you select the country in which you will use the TV. In this way the channels of the selected country will automatically get the top positions during automatic presetting.

- Press the power switch **⏻** on the TV. If the standby indicator **⏻** on the TV is lit, press **⏻** or a number button **0** on the Remote Commander. Press the MENU button **⏻** on the Remote Commander. The menu LANGUAGE appears.
- Push the joystick **⏻** to blue or green to select the language. Press the joystick **⏻** to confirm your selection. The menu COUNTRY appears.
- Push the joystick **⏻** to blue or green to select the country in which you wish to operate the TV. Press the joystick **⏻** to confirm the selection. The menu AUTO PROGRAMME appears.



B Presetting Channels Automatically

With this function the TV automatically searches and stores up to 100 channels onto programme positions. If you prefer »Manual Presetting of channels« please refer to page 46 in Advanced Operation.

A All items shown on the menu screen are as wanted: Press the joystick **⏻** to select START. Now the automatic channel presetting starts from programme position 1.

or

B You wish to change items as shown on the menu screen: Push the joystick **⏻** to blue or green. Push to yellow repeatedly until the desired item is highlighted.

Push the joystick **⏻** to blue or green to select the following possibilities:

ACI

(Automatic Channel Installation, depending on availability of service in your country)
on: fast channel presetting by special networks using the channel frequency (e.g. F055) TV-system and station label
off: ACI is not active, only ITP (Intelligent Tuner Preset)

SYS (TV Broadcast System)

B/G for Western European Countries

I for Great Britain

D/K for Eastern European Countries

L for France

PROG (Programme Position)

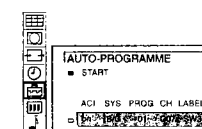
Presetting automatically starts from position 1.

CH (channel)

C to start presetting with terrestrial channels

S to start presetting with cable channels

Press the joystick **⏻** as soon as the automatic presetting should start.
After automatic presetting is over, the NexTV menu appears on the screen.



Joystick

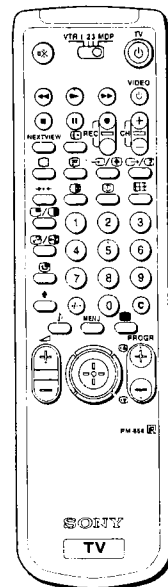
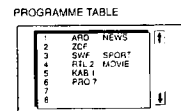
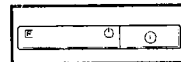


Step 3 TV operation

Using Direct Access Buttons

This section explains functions used while watching TV. Most operations are carried out using the Remote Commander (numbers in circles). All basic functions are also available on the TV set itself (letters in boxes).

To	Press
Switch on	• ① K on TV.
Switch off temporarily (Standby mode)	• ① ⏻ . TV is now in standby mode and indicator ⏻ lights up. ! After 15 min without any TV signal and no pressing of any button, the TV switches automatically into standby mode.
Switch on from standby mode	• ① ⏻ , PROGR +/- ② G or any number button ③.
Switch off completely	• ① K on TV. ! To save energy, we recommend to switch off your TV completely when TV is not in use.
Select programmes and see current broadcast	• PROGR +/- ② G or number buttons ③. For double digit number, press -/- ④, then the two number buttons ③. (E.g. for 24, press -/- ④, then 2 and 4.)
Display a programme table	• The joystick ⑤. Push the joystick ⑤ to blue or green to select a programme, then press the joystick ⑤ to confirm.
Display on screen indications	• ① ⏻ . Press again to make the indications disappear.
Adjust the volume	• △ + or - ① F .
Mute the sound	• ⓧ ①. Press again to restore the sound.
Display the time (only available when teletext is broadcast)	• ① ⏻ . Press again to make the display disappear.
Tune in a channel temporarily	• «C» ② once for terrestrial channels, twice for cable channels. The indication «C» or «S» for cable channels appears. Enter the channel number with two digits, e.g. for 4, press 0, then 4.
View the input of a connected device (see also page 63)	• ① ⏻ ② E repeatedly until the desired input signal appears. Press ① ⏻ ② G to restore the normal TV picture.
View teletext (see also page 60)	• ① ⏻ ② S to switch on. Input a page number, using the number buttons ③ (e.g. for page 125, press 1, 2 and 5). ① ⏻ ② S to switch off.
Change the screen mode (see also page 57)	• ① ⏻ ② repeatedly. The mode changes as follows: Auto Wide → Smart → 4:3 → 14:9 → Zoom/PAL Plus → Wide
Display NextView (see also page 56)	• Press NextView ④. Push the joystick ⑤ to blue, green, red or yellow to select. Press NextView ④ again to restore the normal TV picture.
Reset picture settings to factory levels	• ⏻ ② D . Press again to get an extra bright picture.



Advanced Operation

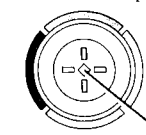
Using the Menu System

Use the following buttons on the Remote Commander to operate the Menu system:

- 1 Press MENU button ① to switch menu on or off.
- 2 Use the joystick ⑤ as follows:



GREEN : scroll up



RED : decrease/back to last item or to last menu
When menu is not displayed:
Push to red to display the last menu screen

YELLOW : increase/forward to next item

BLUE : scroll down

Joystick: Press at its neutral position to confirm selection or store

Advanced Presetting

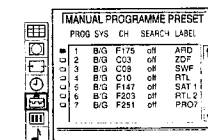
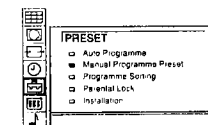
Presetting channels manually

Using this function you can preset channels one by one to different programme positions. It is also convenient to allocate programme numbers to video input sources.

- 1 Press MENU ①.
- 2 Push joystick ⑤ to blue or green to select the symbol on the menu screen. Push to yellow to confirm the selection.
- 3 Push to blue or green to select »Manual Programme Preset«. Push to yellow to confirm the selection.
- 4 Push to blue or green to select the programme position (PROG) to which you want to preset a channel. Push to yellow to confirm.
- 5 Push to blue or green to select the TV broadcast system (SYS) (B/G for western European countries, I for Great Britain, D/K for eastern European countries, L for France) or a video input source (EXT). Push to yellow to confirm.
- 6 Push to blue or green to select »C« (for terrestrial channels), »S« (for cable channels) or »F« (for channel frequency). Push to yellow to confirm.

There are two possibilities to preset channels manually:






- a) You know the channel number or channel frequency.
Please use method »Direct input«.
- or
- b) You don't know the channel number or frequency.
Please use method »Search«.



Advanced Presetting






Skipping Programme Positions

This function enables you to skip unused programme positions when selecting them with the PROGR +/- buttons. However, by using the number buttons you can still select the skipped programme position.

- 1 Press MENU .
- 2 Push joystick  to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »Manual Programme Preset«. Push to yellow to confirm.
- 4 Push to blue or green to select the programme position you want to skip. Push to yellow to confirm.
- 5 Push to blue or green to select »----« in the position SYS (system). Press the joystick  to confirm.
- 6 Repeat steps 4 and 5 to skip other programme positions.
- 7 Press MENU  to restore the normal TV picture.







Sorting Programme Positions



This function enables you to sort the programme positions to a preferable order.

- 1 Press MENU .
- 2 Push joystick  to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »Programme Sorting«. Push to yellow to confirm.
- 4 Push to blue or green to select the programme position of the channel you want to exchange. Press joystick  to confirm.
- 5 Push to blue or green to select the programme position of the second channel. Press joystick  to confirm. Now the two programme positions are swapped and sorted.
- 6 Repeat steps 4 and 5 to sort other programme positions.

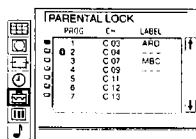
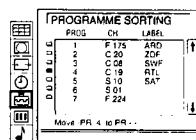
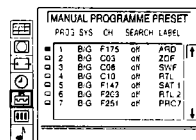
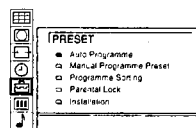
Using Parental Lock

This function enables you to prevent children watching undesirable broadcasts.

- 1 Press MENU .
- 2 Push joystick  to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to green or blue to select »Parental Lock«. Push to yellow to confirm.
- 4 Push to green or blue to select the channel you want to block. Press the joystick  to confirm. The symbol  appears before the programme position to indicate that this channel is now blocked.
- 5 Repeat step 4 to block other channels.
- 6 Press MENU  to restore the normal TV picture.

! To unlock: Select the channel to unblock in the menu »Parental Lock«. Press the joystick . The symbol  disappears.

Joystick










Advanced Presetting

Using »Further Programme Preset«

Using the menu »Further Programme Preset« you can


- a) in case of a strong local aerial signal (striped picture) attenuate the signal individually for each programme position (RF attenuator).
- b) individually adjust and store the volume level of each channel (Volume offset).
- c) in case of picture or sound distortions use manual fine tuning to obtain a better picture quality. The factory setting is »on« for AFT (Automatic Fine Tuning).
- d) preset the AV output for the programme positions of channels with scrambled signals (e.g. from a Pay TV decoder). In this way a connected VCR records the unscrambled signal.




- 1 Press MENU .
- 2 Push the joystick  to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »Installation«. Push to yellow to confirm.
- 4 Push to blue or green to select »Further Programme Preset«. Push to yellow to confirm.
- 5 Push to blue or green to select the programme position you want. Push to yellow repeatedly to select:
 - a) ATT (RF attenuator), b) VOL (Volume Offset), c) AFT (Automatic Fine Tuning) or d) DECODER. The selected item changes colour.
- 6a) ATT
Push to blue or green to select »ON« for the programme position and press the joystick  to confirm. Repeat step 6 to attenuate other programme positions.
- 6b) VOL
Push to blue or green to adjust the volume for the selected programme position within a range of -7 to +7. Press the joystick  to confirm. Repeat step 6 to set the volume level for other programme positions.
- 6c) AFT
Push to blue or green to fine-tune the channel within a range of -15 to +15. Press the joystick  to confirm. Repeat step 6 to fine-tune other channels.
- 6d) DECODER
Push to blue or green to select AV1 or AV2 for the programme position and press the joystick  to confirm. Repeat step 6 to preset the AV output for other programme positions.

! »Auto Programme« cancels this setting.

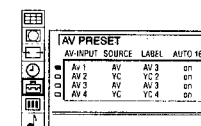
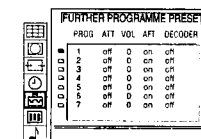
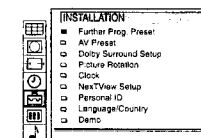
- 7 Press MENU  to restore the normal TV picture.

Using »AV Preset«

Using this function you can preset the desired input source (e.g. , RGB signal) to the respective AV input (AV1). In this way a connected VCR switches automatically to the RGB signal. Also you can label the input sources.

- 1 Press MENU .
- 2 Push the joystick  to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »Installation«. Push to yellow. Push to blue or green to select »AV Preset«. Push to yellow to confirm.
- 4 Push to blue or green to select the desired AV input. Push to yellow to confirm.
- 5 Push to blue or green to select the desired source. Push to yellow to confirm. For the respective AV inputs you have the following choice:

Joystick



AV1: RGB or AV
AV2: YC2 or AV
AV3: YC3 or AV
AV4: YC4 or AV

continued >>>

Advanced Presetting

- To label a source: Push to blue or green to select the first character (letter or number, »« for a blank). Push to yellow to confirm. Select the other four characters in the same way.
- For automatic format and PAL plus selection (Auto 16:9): Push to blue or green to select »On« for the AV input.
- Press the joystick **1** to store.
- Repeat steps 4 to 8 for the other AV inputs.
- Press MENU **15** to restore the normal TV picture.

Setting up Dolby Surround

Before listening to Dolby Surround encoded programmes, you should adapt the Dolby Pro Logic features to your individual requirements. This setting up of the levels and modes of the speakers normally is required only when installing the TV and the speakers or when changing the position of the speakers.

Joystick



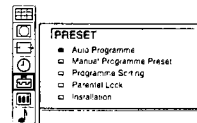
- Press MENU **15**.
- Push the joystick **1** to blue or green to select the symbol on the menu screen. Push to yellow to confirm.
- Push to blue or green to select »Installation«. Push to yellow to confirm.
- Push to blue or green to select »Dolby Surround Set Up«. Push to yellow to confirm.
- Push to yellow. Now there are two possibilities to enjoy Dolby Surround depending on the speakers you have connected to the set.
Push to blue or green to select
a) **Virtual**, if you have connected the supplied or your own lateral speakers. (Speaker mode and Delay Time are set to fixed settings) or
b) **Pro Logic**, if you have connected the supplied or your own lateral speakers, plus optional speakers via an external stereo amplifier. Press the joystick to confirm.
- Push to blue or green to select »Level Settings«. Push to yellow. The setting »Left« (sound level of the left speaker) changes colour. You hear a test tone from the left speaker.
- Push to yellow. Push to red or yellow to adjust the level. Press the joystick **1** to confirm.
- Push to blue or green to select Centre (centre speaker/s, only for ProLogic mode), Right (right speaker), Surround (surround speakers, only for ProLogic mode) or Effect (imitation of Dolby effect, only for Virtual mode). Repeat step 7 to adjust the sound level of the selected speaker. Repeat steps 7 and 8 to adjust the sound levels of the other speakers (from your sitting position all levels should be the same). Push to red.

only for ProLogic mode

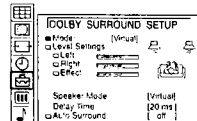
- Push to blue to select »Speaker mode«. Push to yellow to confirm.
Push to blue or green to select:
Normal – all speakers are activated
Phantom – centre speaker is not used
Wide – wider bandwidth for centre speaker
Press the joystick **1** to confirm.
- Push to blue or green to select »Delay Time«. Push to yellow to confirm. Push to blue or green to select the delay time of the surround speakers (e.g. 20 ms for standard rooms, 30 ms for small rooms)
15 ms → 20 ms → 25 ms → 30 ms
Press the joystick **1** to confirm.

For both Virtual and Dolby Pro Logic modes:

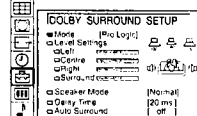
- Push to blue or green to select »Auto Surround«. Push to yellow to confirm. Push to blue or green to select:
On - When receiving a Dolby Surround encoded programme, the TV switches automatically to Dolby Surround sound (depending on availability of service by broadcaster).
Off - normal
Press the joystick **1** to confirm.
- Press the MENU button **15** to restore the normal TV picture.



Virtual:



Pro Logic:



Advanced Presetting

Setting up RGB or PC-IN

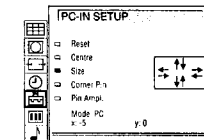
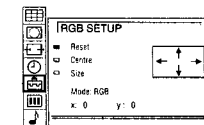
When connecting an RGB source, such as a Sony playstation to **1**, or a PC to one of the PC-IN connectors **12** you may need to readjust the geometry of the picture.

- Press **15** repeatedly to select **1** for RGB source (playstation) or PC IN 1 (VGA1) or PC IN 2 (VGA2) (computer).
- Press MENU **15**.
- Push the joystick **1** to blue or green to select the symbol on the menu screen. Push to yellow to confirm.
- Push to blue or green to select »Installation«. Push to yellow. Push to blue or green to select »RGB setup« or »PC-IN setup«. Push to yellow to confirm.
- Push to blue or green to select »Centre«. Push to yellow. Push to blue, green, red or yellow (see figure) to adjust the centre of the picture. Press the joystick **1** to confirm.
- Push to blue or green to select »Size«. Push to blue **1**, green **1**, red **1** or yellow **1** to change the horizontal and vertical coordinates. Press the joystick **1** to confirm.
- To return to factory setting of the geometry: Select »Reset« in the menu and press the joystick **1**.
- Only for PC-IN**
Push to blue or green to select »Corner Pin«. Push to yellow. Push to blue, green, red or yellow to adjust the four corner pins. Press the joystick **1** to confirm.
- Push to blue or green to select »Pin Amplification«. Push to yellow. Push to red or yellow to adjust the pin amplification. Press the joystick **1** to confirm.

For both RGB-IN and PC-IN

- Press MENU **15** to restore the normal TV picture.

The settings in PC-IN SETUP are stored according to the connected equipment.

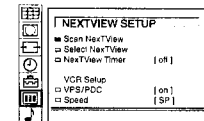


Setting up Next View and Your VCR

depending on availability

(only necessary if you skipped the setting up of NextView in the »Basic Presetting«-section, page 44 or if you wish to change the setting)

- Press MENU **15**.
- Push the joystick **1** to blue or green to select the symbol on the menu screen. Push to yellow to confirm.
- Push to blue or green to select »Installation«. Push to yellow to confirm.
- Push to blue or green to select »NexTVView Setup«. Push to yellow to confirm.
- Press the joystick **1** to activate »Scan NexTVView«. Now all available channels are scanned to register if they support NexTVView.
- Push to blue or green to select »Select NexTVView«. Push to yellow to enter. Push the joystick **1** to blue or green to select the NexTVView provider of your choice. Press the joystick **1** to store.
- Push the joystick **1** to blue or green to select »NexTVView Timer«. Push to yellow to enter. Push repeatedly to green to select one of the 3 possible settings:
off - on NexTVView data is collected
always - as soon as the TV is in standby-mode, data is collected
time - push repeatedly to blue or green to select the time from when on you wish the TV to collect data.
- Press the joystick **1** to confirm your selection.










continued >>>

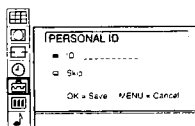
Advanced Presetting

Inputting Your Personal ID

You have the possibility to input a safety code. This will help to re-identify a stolen TV set as your own.






! Once you have stored the ID you can never again change this setting.

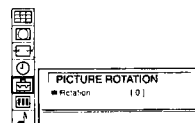
- 1 Press MENU .
- 2 Push the joystick  to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »Installation«. Push to yellow to confirm.
- 4 Push to blue or green to select »Personal ID«. Push to yellow to confirm.
- 5 a) You want no Personal ID:
Push to blue to select »Skip«. Press the joystick  to confirm. Now you are back in the Installation menu.
or
b) You wish to select your Personal ID:
Push to yellow to enter »ID«. You have a total of 11 digits for your personal code. Push to blue or green to select a letter (A–Z), a number (0–9) or »-« for a blank. Push to yellow to go to the next digit. Select the other characters in the same way.
- 6 Press the joystick  to store your ID or press MENU  to cancel. The stored ID appears on the screen.
- 7 Press MENU  to restore the normal TV picture.



Adjusting the Picture Rotation

If, due to the earth magnetism, the picture slants, you can use this function to readjust the picture.









- 1 Press MENU .
- 2 Push the joystick  to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »Installation«. Push to yellow to confirm.
- 4 Push to blue or green to select »Picture Rotation«. Push to yellow to confirm.
- 5 Push to yellow. Push to blue or green to adjust the picture rotation. The adjusting range is - 4 to + 4. Press the joystick  to confirm.
- 6 Press MENU  to restore the normal TV picture.



Advanced TV operation

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste.

- 1 Press  (for Picture) or  (for Sound)
or
Press MENU .
- Push the joystick  to blue or green to select  for Picture Control or  for Sound Control. Push to yellow to confirm. The menu PICTURE CONTROL or SOUND CONTROL appears.
- 2 Push to blue or green to select the desired item. Push to yellow to confirm.
- 3 Push to red or yellow to adjust the selected item. Press the joystick  to confirm. For the effect of each control, see the following tables.
- 4 Repeat steps 2 and 3 to adjust other items.
- 5 Press MENU  to restore the normal TV picture.

Picture Control

Item	Effect
Picture Mode	• Personal → Economy (energy saving setting) → Live → Sports → Movie → Game
Contrast	• Less ——— ——— More
Brightness*	• Darker ——— ——— Brighter
Colour*	• Less ——— ——— More
Hue**	• Greenish ——— ——— Reddish
Sharpness*	• Softer ——— ——— Sharper
Reset	• Resets picture to the factory preset levels
AI	• Off: Normal On: Automatic optimization of contrast level according to TV signal
Noise Reduction	• Off: Normal On: Reduction of picture noise in case of weak signals
Digital Mode	• 1: Normal 2: LFR (Line Flicker Reduction) off

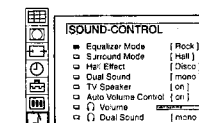
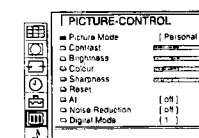
* Only if »Personal« or »Economy« is selected in »Picture Mode«.

** Available for NTSC colour system only.

Sound Control

Item	Effect
Equalizer Mode	• See page 55 for details
Surround Mode	• Off: normal → Pro Logic or Virtual (depending on setting) → Hall
Hall Effect (only if Hall is on)	• Choice between different hall effects Church → Hall → Stadium → Disco
Dual Sound	• A: channel 1 or B: channel 2 Stereo → Mono
TV Speaker	• On: when using the TV speakers Off: when using the speakers of a stereo system
Auto Volume Control	• On: volume level of a channel stays the same, e.g. in case of advertisements Off: volume level of a channel changes according to broadcast
Headphones	
○ Volume	• Less ——— ——— More
○ Dual Sound	• A: channel 1 or B: channel 2 → PAP (if PAP is switched on, you can select the PAP sound for the headphones) → Stereo → Mono

Joystick






Advanced TV operation



Using the Graphic Equalizer

Using this function you can individually adjust the sound by cutting and boosting selected frequencies. Also you can select between the following settings:

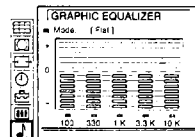
Flat → User → Vocal → Jazz → Rock → Pop

- 1 Press MENU .
- 2 Push the joystick  to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »Graphic Equalizer«. Push to yellow to confirm.
- 4 Push to yellow. The colour of »Mode« changes. Push to blue or green to select the mode you want.
- 5 If you want to modify a mode, push repeatedly to yellow until the desired bar of a frequency band changes colour. Push to blue or green to change the level of a bar. In this way you can adjust all 5 graphic bars.

! The »Flat« mode is fixed and cannot be modified.

- 6 Press the joystick  to store the adjustment.
- 7 Press MENU  to restore the normal TV picture.



Joystick



Selecting Nicam Broadcasts

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, »NICAM« appears briefly on the screen.





Niam programmes can be broadcast in two ways. You may select the sound you want to hear in either of these by first following the instructions explained on page 54.

Service Being Broadcast	Action	Effect
Stereo	Push Joystick  to blue or green	Stereo Nicam (mono 2-channel) mono
Push to blue or green again to return to stereo Nicam (mono 2-channel)		
Bilingual	Push Joystick  to blue or green	Channel A Nicam Channel B Nicam Mono
Push to blue or green again to return to channel A Nicam		

*Depending on availability of service

Presetting Dolby Surround




To enjoy Dolby Surround encoded programmes, preset the setting »Surround Mode« in the menu »Sound Control« to »Pro Logic« or »Virtual«. After the end of the broadcast make sure to return the setting to »Off«, otherwise the TV selects automatically »Pro Logic« or »Virtual« when receiving the next stereo broadcast.

- 1 Press button  on the Remote Commander.
- 2 Push joystick  to blue or green to select »Surround Mode«. Push to yellow to confirm.
- 3 Push to green or blue to select »Pro Logic« or »Virtual«. Press the joystick  to confirm.
- 4 Press MENU  to restore the normal TV picture.



Advanced TV operation

Using Multi PIP



Using »Multi PIP« you can scan 12 successive TV channels on the screen (Programme Catching) or display 11 successive freeze pictures on the screen (Photo Mode).

- 1 Press MENU .
- 2 Push joystick  to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.



a) Programme Catching

Push to blue or green to select »Programme Catching«. Press the joystick . Now a scan of 12 successive programmes (11 still pictures, 1 live picture where the cursor is positioned) is displayed on the screen starting from the programme tuned in. Pushing the joystick to blue, green, red or yellow you can move the cursor in all directions and update the still pictures. When selecting a programme position lower or higher than the 12 displayed ones the programme scanning starts again. Press MENU  to restore the normal TV picture.

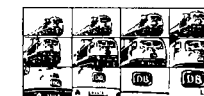
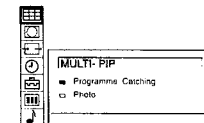
Selecting a programme using Programme Catching:

Push the joystick  to blue, green, red or yellow to select the programme position you want, then press the joystick . Now the selected programme appears and you are back in the normal TV mode.

b) Photo mode





Push to blue or green to select »Photo mode«. Press the joystick . Now the main picture is displayed as a succession of 11 still pictures and a 12th picture, which is live. Push to blue or green to start the photo mode again. Press the joystick  to restore the normal TV picture.

Joystick




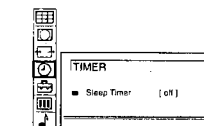
Using the Sleep Timer

This function enables you to select a time period after which the TV automatically switches into standby mode.

- 1 Press MENU .
- 2 Push joystick  to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to yellow. Push to blue or green to select the time.
OFF → 15 min → 30 min 3.45 h → 4 h.
Press the joystick  to confirm.

! One minute before the TV switches into standby mode, a message is displayed on the screen.












- 4 Press MENU  to restore the normal TV picture.

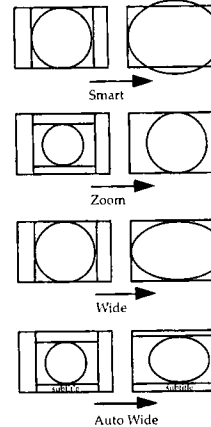
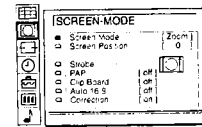


Advanced TV Operation

Operating Screen Mode

Using Screen Mode you can change the aspect ratio of the screen for wide screen effects, operate PAP (picture and picture) or reproduce the main picture image by image (Strobe function).

- 1 Press MENU .
- 2 Push joystick  to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »Screen Mode«. Push to yellow to confirm. Push to blue or green to select one of the following modes:
 - Smart - imitation of wide screen effect (16:9) for 4:3 broadcasts.
 - AutoWide - automatic selection of the optimum screen ratio (e.g. 4:3 picture automatically changes to Smart mode, 16:9 picture changes to Zoom mode)
 - Wide - for 16:9 broadcasts
 - Zoom/PAL Plus - imitation of wide screen effect (16:9) for movies broadcast in cinemascopic format.
 - 14:9 - compromise between 4:3 and 16:9 format
 - 4:3 - conventional 4:3 picture
 Press the joystick  to confirm the selection.
- 4 Only in Zoom / Auto Wide Mode: Changing the Screen position
In Zoom mode parts of the top and bottom of the picture are cut off. Using »Screen position« you can move the screen up- or downwards in order to see the cut-off parts (e.g. to read subtitles). Push to blue or green to select »Screen position«. Push to yellow to confirm.
Push to blue or green to adjust the screen position (Zoom: -10 to +10 Auto Wide: -5 to +5). Press the joystick  to confirm.
- 5 Strobe Mode
Push to blue or green to select »Strobe«. Push to yellow to confirm. The TV picture is now displayed image by image, creating a slow motion effect. Push to blue or green to select the speed of the motion. Press the joystick  to restore the normal TV picture.
- 6 PAP (picture and picture)
Push to blue or green to select »PAP«. Push to yellow to confirm. Push to blue or green to select:
1 - PAP screen in 8:9 format, 2 - PAP screen in 4:3 format, Off - PAP switched off
Press joystick  to confirm.
- 7 Clipboard
Push to blue or green to select »Clipboard«. Push to yellow to confirm. Push to blue or green to select »On« to freeze the PAP screen or »Off« for normal picture. Press joystick  to confirm.
- 8 Auto 16:9
Push to blue or green to select »Auto 16:9«. Push to yellow to confirm. Push to blue or green to select »On« for automatic selection of format or PAL plus in case of PAL plus broadcast or »Off« for normal mode. Press joystick  to confirm.
- 9 Correction (only for Auto 16:9 on)
In case of automatic format detection there are two possibilities for 4:3/14:9 signals: Set Correction to »on« if you wish Smart mode to appear on the screen or set it to »off« if you prefer 4:3/14:9 mode. Push blue or green to select »Correction«. Push to yellow to confirm. Push to blue or green to select »On« or »Off«. Press joystick  to confirm.
- 10 Press MENU  to restore the normal TV picture.



Advanced TV operation



PAP (Picture and Picture)

With PAP you can view two programmes simultaneously (e.g. two TV channels or a video source and a TV channel). The left screen is the main screen with the sound from the speakers, the right screen is the sub screen with the sound selectable via headphones.





! While in PAP-mode, no PC-JN can be selected





Switching PAP on and off

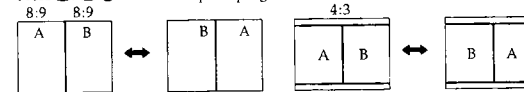
Press   once to display the screens in format 8 : 9, twice to display the screens in format 4 : 3 and three times to switch PAP off.

Selecting a PAP source


Press .
The symbol  appears in the sub screen. Select the PAP source using PROGR +/-   (for a video source).

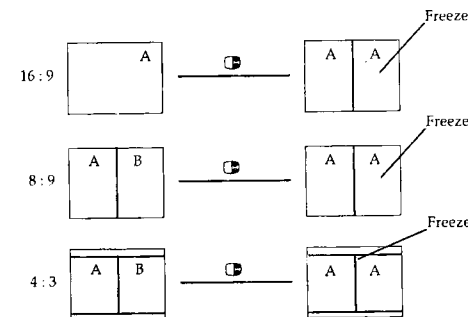
Swapping screens

Press   once to swap the programmes of the main and sub screens.



Freezing the picture of the sub screen

Press  once to freeze the sub screen, twice to return to the normal live picture.



Teletext

Most TV channels broadcast information via teletext. The index page of the broadcaster (usually page 100) informs you about how to use the service. Make sure to use a TV channel with a strong signal, otherwise Teletext errors may occur.



Switching Teletext on and off

- 1 Select the TV channel which carries the teletext service you want to view.
- 2 Press **[P/T]** once for P&T (Picture and Teletext). The normal TV screen is displayed on the left, the Teletext screen on the right.
Press **[P/T]** twice to get Teletext only.
Press **[P/T]** three times for Mix mode. The normal TV screen and the Teletext screen are overlapped.
- 3 Press **[P/T]** to switch Teletext off.

P&T-Mode

When in P&T-mode you can watch one channel on the left side of the screen and select the teletext service of the right channel. Press **[P/T]** to switch PAP on. Press **[P/T]** and the programme number to select the desired PAP source. Press **[P/T]** to display Teletext.

Selecting a Teletext page

Direct Page Selection

Use the number buttons **[0-9]** to input three digits of the page number. If you have made a mistake: Type in any three digits, then reenter the correct page number.

Page Catching

- 1 Select a teletext page with page numbers (e.g. index page).
- 2 Press the joystick **[Up]**. »Page Catching« is displayed at the top of the page.
Push the joystick **[Up]** to blue or green to select the page you want.
Push the joystick **[Up]**. The requested page is displayed after some seconds.

Accessing the next or preceding page

Press **[Page +]** (Page +) or **[Page -]** (Page -).

Freezing a teletext subpage

Press **[Freeze]**. The symbol **[Freeze]** is displayed.
Press **[Freeze]** to resume normal teletext reception.

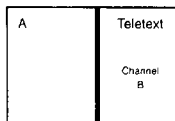
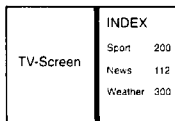
Revealing hidden information (e.g. for a quiz)

Press **[Reveal]**. Press again to cancel.

Using Fastext

(only available, if the TV station broadcasts Fastext signals)

With Fastext you can access pages with one key stroke. When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue marks on the Remote Commander. Push the joystick **[Up]** to the colour mark which corresponds to the colour-coded menu. The page is displayed after some seconds.



Joystick



Teletext



Your TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the buttons for menu operation to operate the teletext menu. Select the teletext menu functions as follows:

- 1 Press MENU **[Menu]**. The menu is superimposed on the teletext display.
- 2 Push the joystick **[Up]** to blue or green to select the teletext function you want. Push to yellow to confirm the selection.

USER PAGES/PRESET USER PAGES

See page 62 for information about presetting and operating the user pages.

INDEX

The index gives you an overview of the contents of the teletext you are using.

TOP/BOTTOM/FULL

For convenient reading of a teletext page you can enlarge the teletext page. After selecting the function, an information line »Top Bottom OK Full« is displayed. Push joystick **[Up]** to green to enlarge the upper half, push to blue to enlarge the lower half. Press the joystick **[Up]** to resume the normal display. Press **[Menu]** to resume normal teletext reception.

TEXT CLEAR

After selecting the function, you can watch a TV programme while waiting for a requested teletext page to be captured. When the page is available, the symbol **[Text Clear]** changes colour. Press **[Menu]** to view the requested page.

SUBTITLES

Check with your teletext service for information about subtitled TV programmes. After selecting the function the subtitles are displayed.

TIME PAGE

Check with your teletext service about the availability of time coded pages. If available, you can call up a page (e.g. an alarm page) at a certain time.

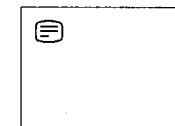
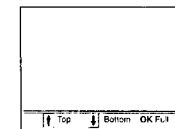
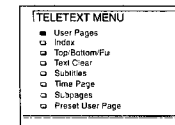
- 1 Select TIME PAGE in the teletext menu.
Push joystick **[Up]** to yellow. An information window is displayed. Push to blue or green to select »On«. Push to yellow.
- 2 Use the number buttons **[0-9]** to enter the three digits of the page you want (e.g. 301). Push to yellow after each digit.
- 3 Use the number buttons **[0-9]** to enter the four digits of the desired time (e.g. 18-54). Push to yellow after each digit. Press joystick **[Up]** to confirm. Press MENU **[Menu]**. The time is displayed in the top left-hand corner of the screen.
At the requested time the page is displayed.

SUBPAGE

Using this function you can select a particular teletext page from several subpages (e.g. page 2 of 6 pages in total). After selecting the function an information line is displayed. Use the number buttons **[0-9]** to enter the four digits (e.g. enter 0002 for the second page of a sequence).

To cancel the request: Press number button »0« **[0]** four times.

Joystick



Optional Equipment

Connecting Optional Equipment

You can connect a wide range of optional equipment to your TV. Refer to the illustrations on the back lap page of this Instruction Manual.

Symbol	Acceptable input signals	Available output signals
1	Normal audio/video and RGB	Audio/video from TV tuner
2/3	Normal audio/video and S video	Audio/video from selected source
3, 3	Normal audio/video and S video	No output
4, 34	Normal audio/video and S video	Audio/video from screen (monitor out)
5, 5 PAL plus	No inputs	PAL Plus Signal or YC Signal, audio out
PC 5	VGA signal from PC	No output
5	Audio from PC	No output

About S video input

Video signals may be separated into Y (luminance) and C (chrominance) signals. Separating the two signals prevents interference and thus improves the picture quality.

! If the picture or sound is distorted, move the VCR away from the TV. When connecting a monaural VCR, connect only the white jack to both the TV and VCR.

Selecting Input and Output Signals

a) Direct Access Buttons

Selecting the Input

Press 1 2 3 repeatedly to select one of the following input modes (depending on setting in AV-Preset):

Symbol on the screen	Input signals	
1 or 1	Audio/video through Euro AV connector	L
2 or 2	RGB through Euro AV connector	L
2 or 2	Audio/video through Euro AV connector	M
3 or 3	S video through Euro AV connector	M
3 or 3	Audio/video through the phono jacks	C
3 or 3	S video through the 4 pin DIN	B
4 or 4	Audio/video through Euro AV connector	N
4 or 4	S video through Euro AV connector	N
1 PC IN 1	VGA through VGA-connector	P
2 PC IN 2	VGA through VGA-connector	H

Press 5 to restore the normal TV picture.

Selecting the Output from Euro AV connector 2/3 2 M

Press 2/3 repeatedly to select one of the following output sources for the connector 2/3 2 M:

Symbol on the screen	2/3 2 M connector output signal	
1	Audio/video from Euro AV connector	L
2	Audio/video from Euro AV connector	M
2	Audio/video from Euro AV connector	M
3	Audio/video from the phono jacks	C
3	Audio/video from the 4 pin DIN	B
4	Audio/video through Euro AV connector	N
4	Audio/video through Euro AV connector	N
TV	Audio/video from the aerial terminal T	T

Optional Equipment

b) Using the Menu »Video Connection«

- Press MENU 5.
- Push joystick 1 to blue or green to select the symbol 2 on the menu screen. Push to yellow to confirm.
- Push to blue or green to select »TV screen« (input source for TV-screen), PAP (source for PAP sub screen), or »Output« (output source for 2/3 2 M). Push to yellow to confirm.
You can select between the following sources:
• TV: TV-tuner • YC: S video signal • AV: Audio/Video • Sub: 2nd TV-tuner
TV screen: TV, AV1, RGB, AV2, YC2, AV3, YC3, AV4, YC4, PC IN 1, PC IN 2
PAP: Sub, AV1, AV2, YC2, AV3, YC3, AV4, YC4
Output: TV, AV1, AV2, YC2, AV3, YC3, AV4, YC4
- Push to blue or green to select the desired source. Press the joystick 1 to store.
- Press MENU 5 to restore the normal TV picture.

PAL Plus terminals

Using the terminals 5 you can record a PAL Plus decoded signal with a conventional PAL VCR while watching a PAL Plus broadcast.

- ! Make sure to have PAP, Multi PIP, Clipboard and Picture and Text switched off during the recording.
- ! Should there be no PAL Plus signal when recording, the Y/C-signal is output from the PAL Plus terminal.

Smartlink

With Smartlink your TV can »communicate« with a connected VCR. Smartlink works if:

- Your VCR supports Smartlink, NEXTVIEWLINK, Easy Link or Megalogic.
- You connect the VCR to AV2 using a fully-wired 21-pin scart cable.

Smartlink offers you

- Tuning information such as the programme table can be downloaded from the TV to the VCR.
- Using NextView you can programme your VCR.
- Direct TV recording: While watching TV you only need to press one button on the VCR to record this programme.
When you press »play« on your VCR, your TV is automatically switched on from standby mode.

! For detailed information please refer to the Instruction Manual of your VCR.

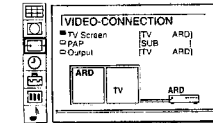
Remote Control of other Sony Equipment

Using the buttons 2 on the Remote Commander you can control other Sony equipment.

- Set the selector VTR 1 2 3 MDP according to the equipment you want to control.
VTR 1: Beta VCR
VTR 2: 8mm VCR
VTR 3: VHS VCR
MDP: Video Disk Player
- Use the buttons 2 on the Remote Commander to operate the equipment.

Tips

- If your video equipment has a COMMAND MODE selector, set this selector to the same position as the VTR 1 2 3 MDP selector on the TV Remote Commander.
- If the equipment does not have a certain function, the corresponding button on the Remote Commander does not work.



Joystick

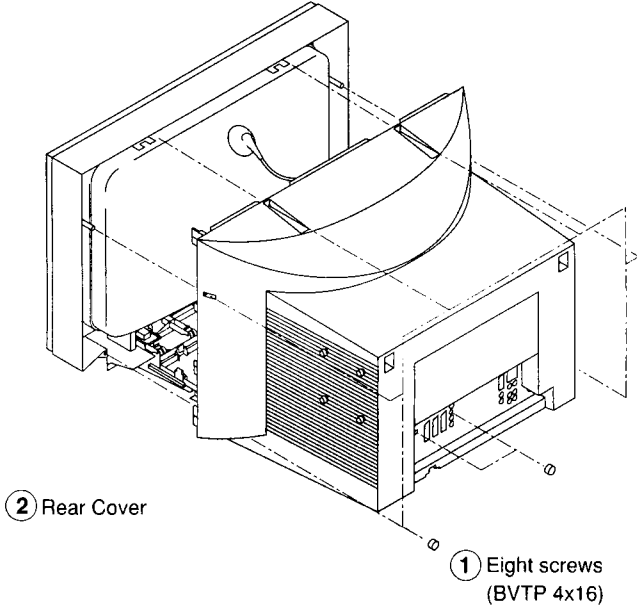


PAL PLUS

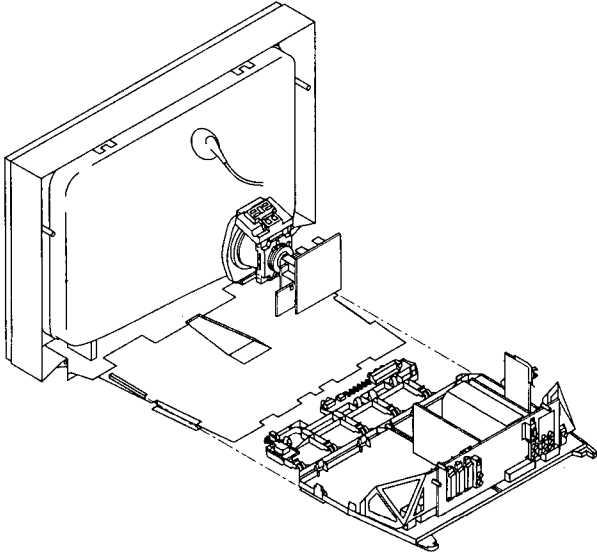


SECTION 2
DISASSEMBLY

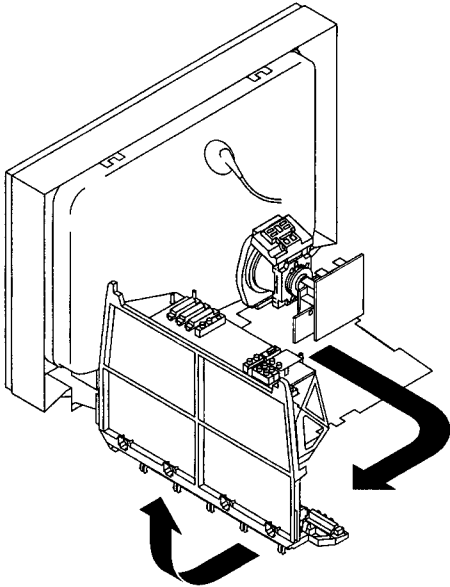
2-1. REAR COVER REMOVAL



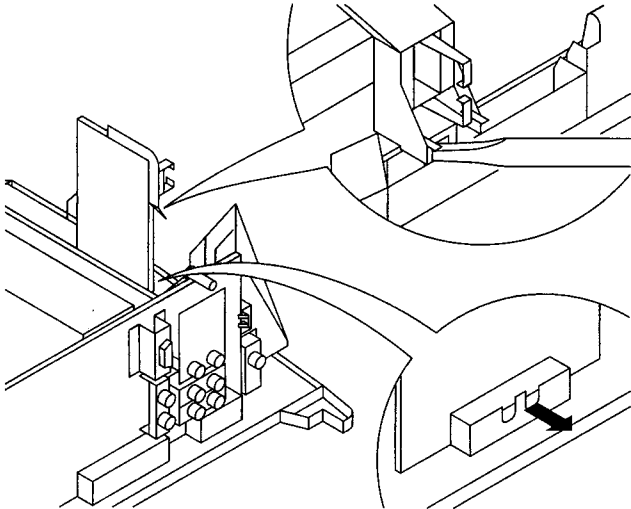
2-2. CHASSIS ASSY REMOVAL

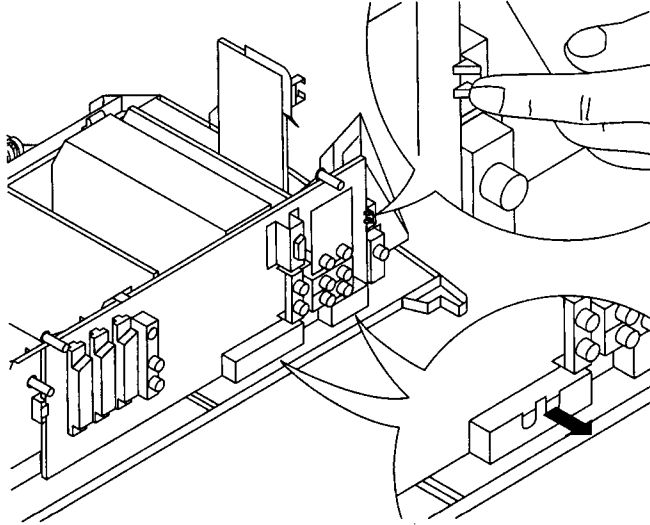
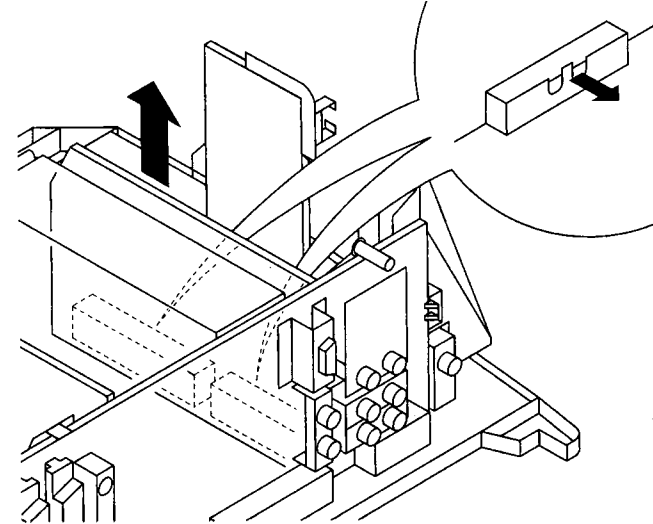
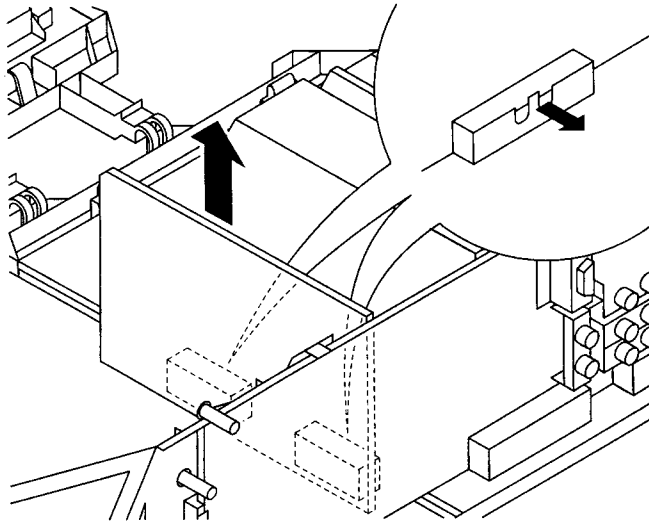
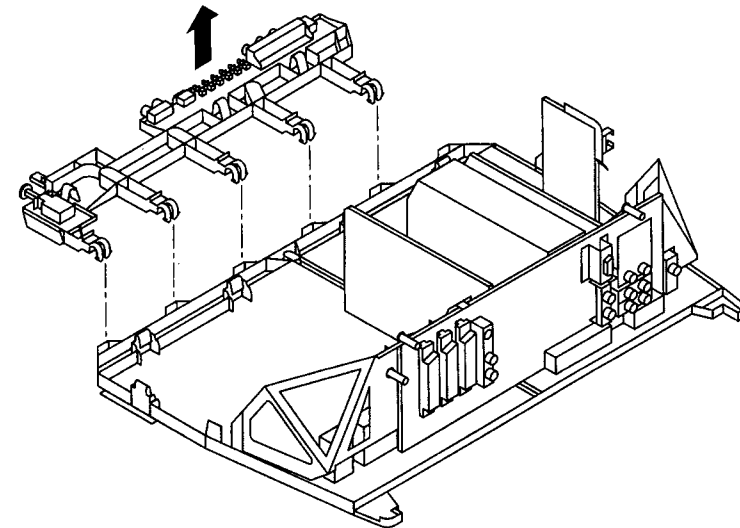


2-3. SERVICE POSITION

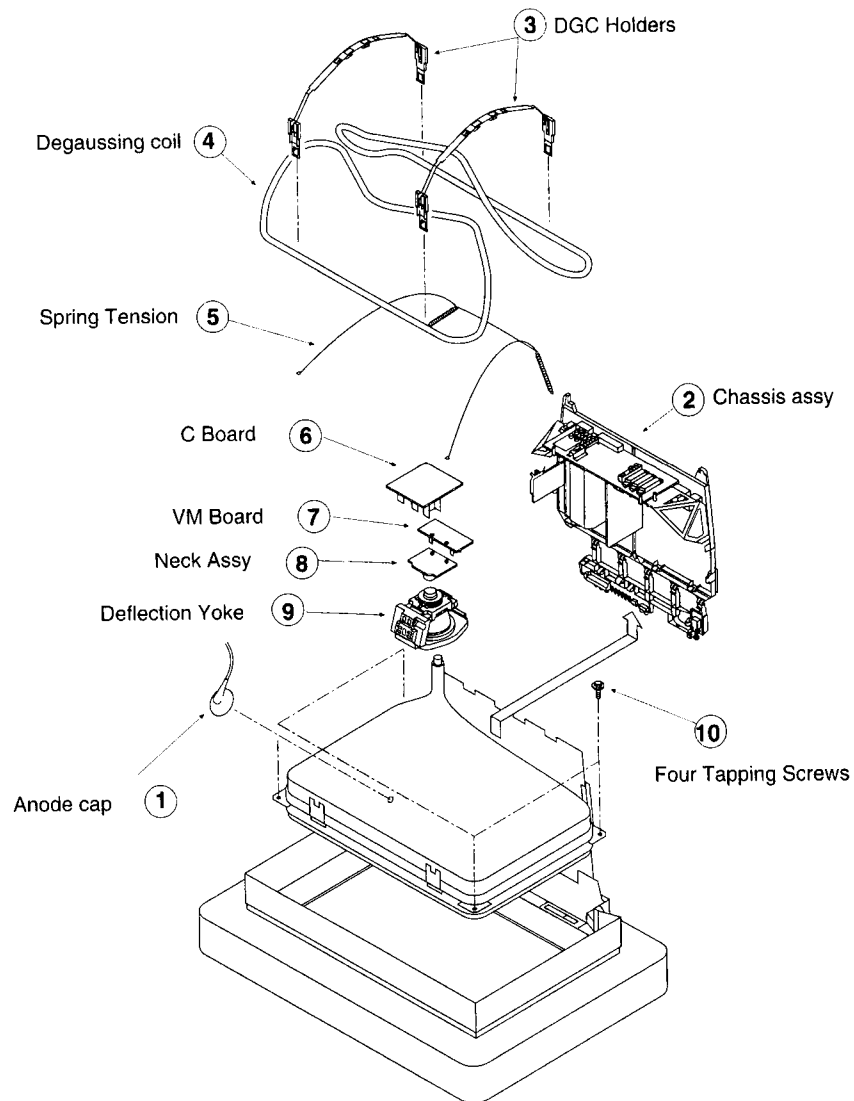


2-4. A1 BOARD REMOVAL



2-5. J BOARD REMOVAL**2-6. B BOARD REMOVAL****2-7. D1 BOARD REMOVAL****2-8. H BRACKET REMOVAL**

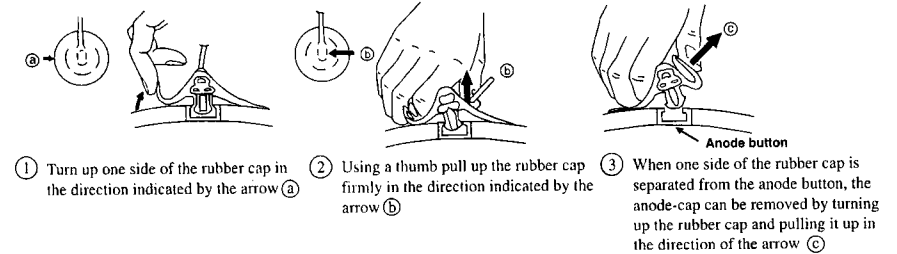
2-9. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

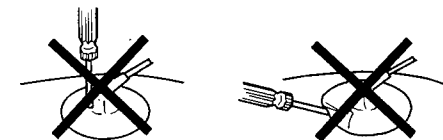
Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

• REMOVING PROCEDURES.



• HOW TO HANDLE AN ANODE-CAP

Don't damage the surface of anode-cap with sharp shaped material !
 Don't press the rubber hardly not to hurt inside of anode-caps !
 A metal fitting called as shatter-hook terminal is built into the rubber.
 Don't turn the foot of rubber over hardly !
 The shatter-hook terminal will stick out or damage the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustment with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches as follows.

Contrast normal
 Brightness normal

- Carry out the following adjustments in this order:

- 3-1. Beam landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White balance

Note: Testing equipment required.

1. Color bar/pattern generator
2. Degausser
3. Vector scope

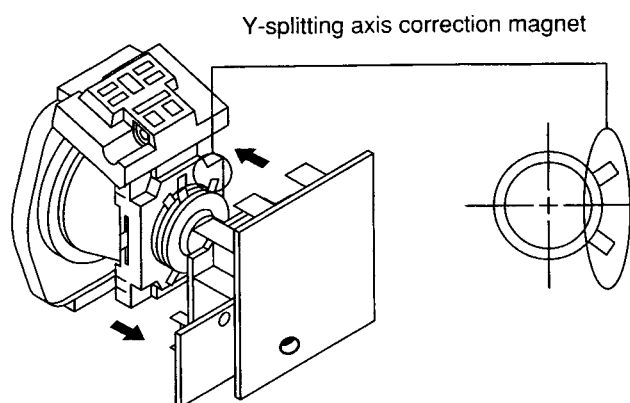
3-1. BEAM LANDING

Preparation:

1. In order to reduce the influence of geomagnetism on the set's picture tube face it in an easterly or westerly direction.
2. Switch on the set's power and degauss with the degausser.

• (1) Adjustment of Correction Magnet for Y-Splitting Axis

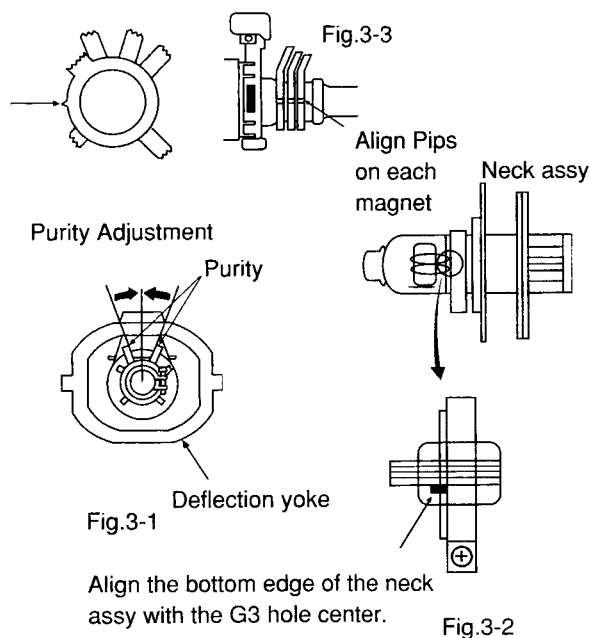
1. Input a crosshatch signal from the pattern generator.
2. Picture control is minimum and brightness control is still normal.
3. Position the neck assy as shown in Fig. 3-2.
4. Move the deflection yoke forward to touch the CRT and it stands up rightly.
5. Adjust the upper pin and the lower pin symmetrically by opening or closing the Y-splitting axis correction magnets on the neck assy.
6. Return the deflection yoke to its original position.



(2) Landing

Note: Before carrying out the following adjustments adjust the magnets as indicated below (See Fig. 3-3).

1. Input an all-white signal from the pattern generator. Maximize the picture setting and adjust the brightness setting.
2. Rough-adjust the focus and horizontal convergence.
3. Loosen the deflection yoke screws, align the purity adjustment knob to the central position. (See Fig. 3-1)
4. Switch from the all-white pattern to an all-green pattern.
5. Move the deflection yoke backwards and adjust with the purity magnet so that the green is at the center and it aligns symmetrically. (See Fig. 3-4)
6. Move the deflection yoke forward and adjust so that entire screen becomes green.
7. Switch the raster signal to red, then to blue and verify the landing condition.
8. When the position of the deflection yoke has been determined, fasten the deflection yoke with the screw.
9. If the beam does not land correctly in all the corners, use magnets to correct it. (See Fig. 3-5)



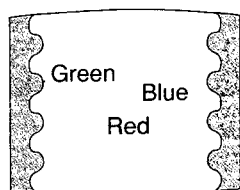


Fig. 3-4

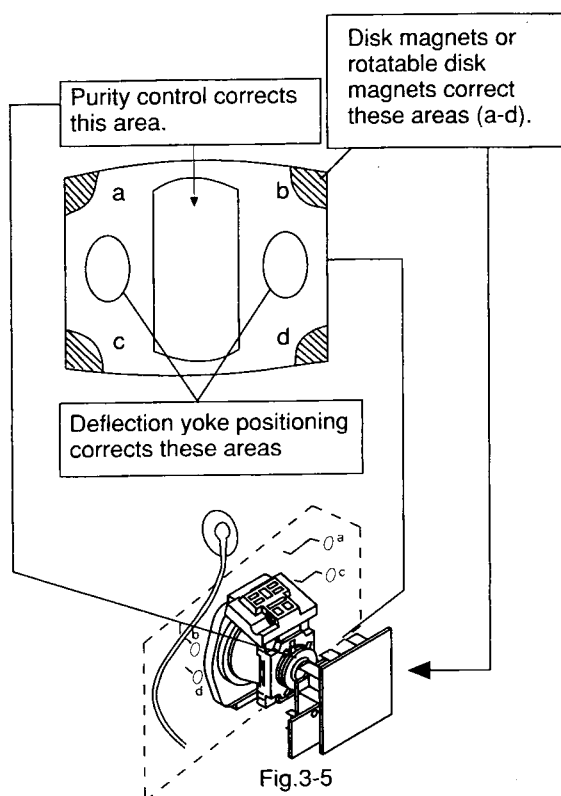
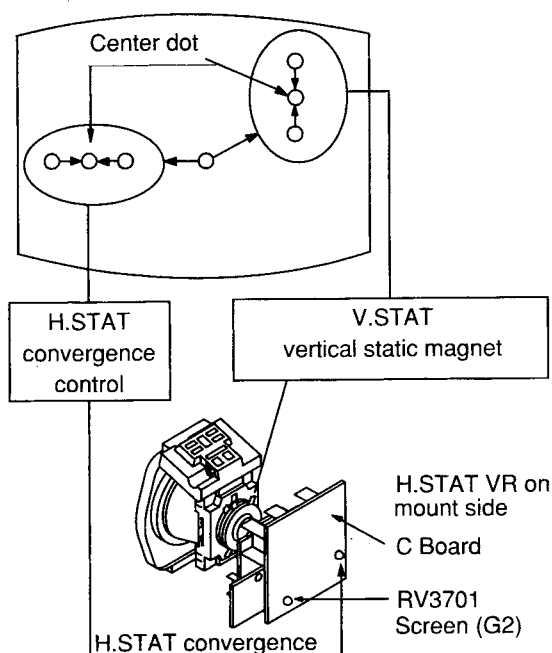


Fig. 3-5

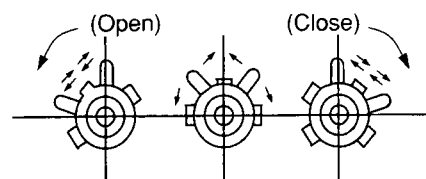
3-2. CONVERGENCE

(1) Screen center convergence (Static convergence)

1. Input a dot signal from the pattern generator. Normalize the picture setting.
2. (Moving horizontally), adjust the H.STAT control so that the horizontal red, green and blue dots coincide at the center of screen.
3. (Moving vertically), adjust the V.STAT magnet so that the vertical red, green and blue points coincide at the center of screen.

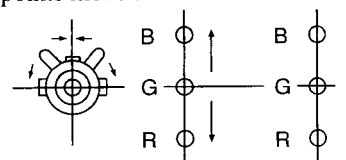


- If the horizontal dots are unable to coincide with the variable range of the H.STAT convergence, adjust together with the V.STAT convergence while tracking. (Adjust the convergence by tilting the V.STAT convergence or by opening or closing the V.STAT convergence.)

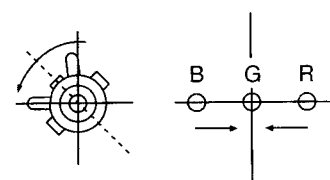


4. Movement of the red, green and blue dots by tilting the V.STAT magnet and by opening or closing the V.STAT magnet.

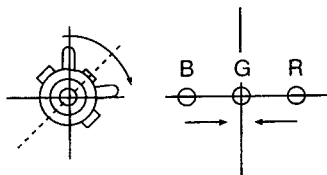
- ① By opening or closing the V.STAT magnet, the red, green and blue points move as shown below



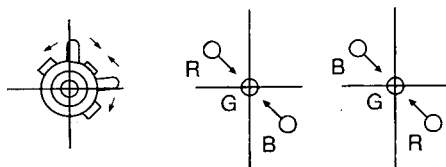
- ② By rotating the V. STAT magnet counterclockwise, the red, green and blue dots move as shown below.



- ③ By rotating the V.STAT magnet clockwise, the red, green and blue dots move as shown below.



- ④ By opening or closing the V.STAT magnet, the red, green and blue dots move as shown below.

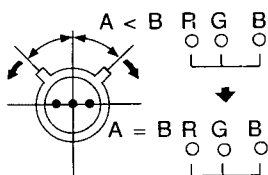


- If the blue dot does not coincide with the red and green points, correct the points by using the BMC (Hexapole) magnet.

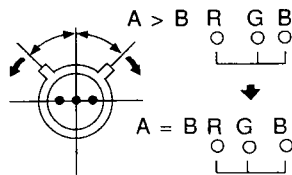
- ⑤ Correction for HMC (horizontal mis-convergence) and VMC (vertical mis-convergence) by using the BMC (Hexapole) magnet.

- ① HMC correction by BMC (Hexapole) magnet and movement of the electronic beam.

HMC correction(A)

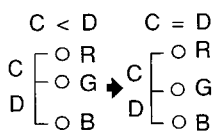
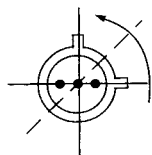


HMC correction(B)

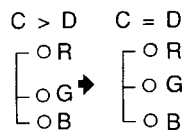
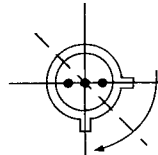


- ② VMC correction by BMC (Hexapole) magnet and movement of the electronic beam.

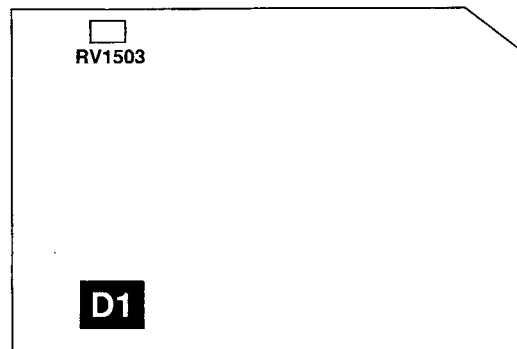
VMC correction(A)



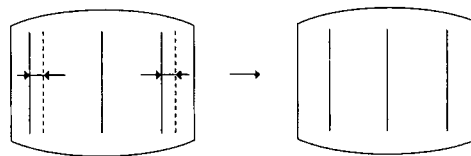
VMC correction(B)



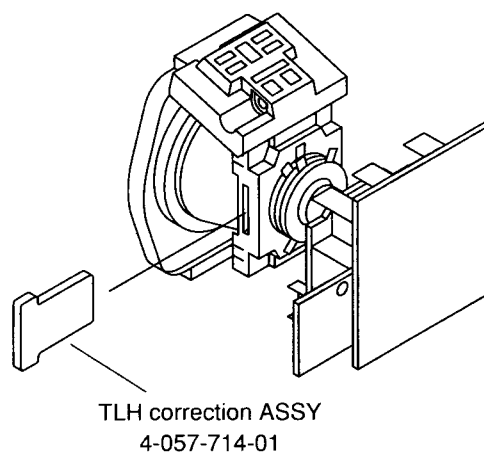
- 6 HAMP correction can be performed by adjusting RV1503 on the D1 board.



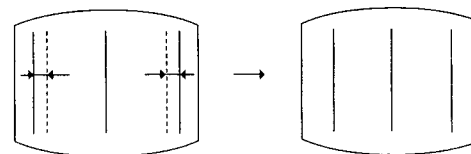
HAMP

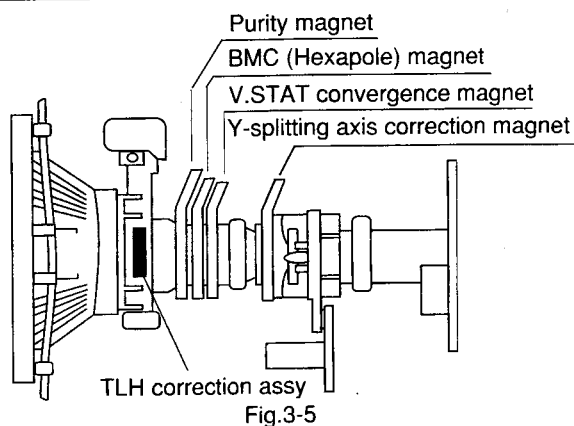


- 7 HTIL correction can be performed by adding a TLH correction ASSY to the DY.

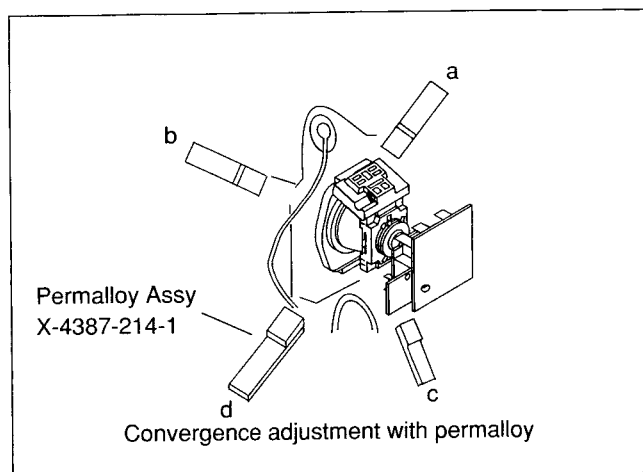
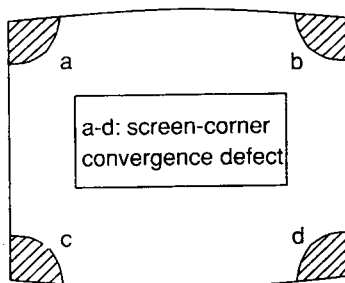


HTIL

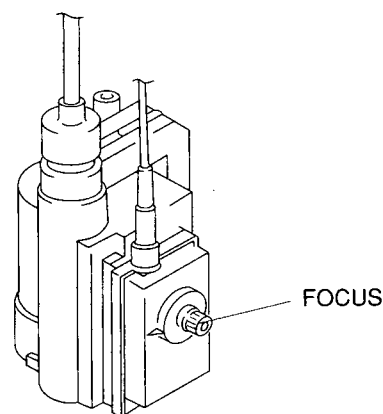


Layout of each control

If you are unable to adjust the corner convergence properly, correct them with the use of permalloys.

**3-3. Focus**

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control on the flyback transformer for the best focus at the center of the screen.
Bring only the center area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.

**3-4. Screen (G2), White balance
(Adjustment in the service mode with remote commander)****G2 adjustment (RV701)**

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 170V DC from an external power supply to the R, G and B cathodes of the CRT.
4. While watching the picture, adjust the G2 control RV701 [SCREEN] on the C board to the point just before the return lines disappear.

White balance adjustment for TV mode

1. Receive an all-white signal.
2. Enter into the Service Mode by pressing 'TEST', 'TEST' and 'MENU' on the Service Commander.
3. Select 'MCP CXA2101' from the on screen menu display and press OK.
4. The 'MCP CXA2101' menu will appear on the screen.
5. Set picture to MAX.
6. Set the 'R DRIVE' to 41.
7. Adjust the 'G DRIVE' and 'B DRIVE' so that the white balance becomes optimum.
8. Press the OK button to write the data for each item.
9. Set picture to MIN.
10. Set the 'R CUT-OFF' to 32.
11. Adjust 'G CUT-OFF', and 'B CUT-OFF' with the left and right buttons so that the white balance becomes optimum.
12. Press the OK button to write the data for each item.

MCP CXA2101

Item No	Adjustment menu	Data Amount
1	RED	ON
2	GREEN	ON
3	BLUE	ON
4	CBLK	OFF
5	AKB T	OFF
6	BLK SW	OFF
7	DA TEST	OFF
8	HY SW	0
9	PICTURE	57
10	LIMIT LEVEL	1
11	HUE	31
12	SYSTEM	1
13	COLOR	31
14	AGE WHT	OFF
15	AGE BLK	OFF
16	BRIGHT	31
17	YS/YM SW	0
18	YM/VM SW	0
19	SHARPNESS	35
20	R DRIVE	41
21	D COL	0
22	CLP SW	1
23	G DRIVE	ADJ
24	B DRIVE	ADJ
25	CLP MSK	0
26	R CUT OFF	32
27	ABL MODE	2
28	G CUT OFF	ADJ
29	ABL TH	1
30	B CUT OFF	ADJ

White balance adjustment for VGA mode

1. Receive an all-white signal.
2. Enter into the Service Mode by pressing 'TEST', 'TEST' and 'MENU' on the Service Commander.
3. Select 'MCP SUB ADJUSTMENT' from the on screen menu display and press OK.
4. The 'MCP SUB ADJUSTMENT' menu will appear on the screen.
5. Set picture to MAX.
6. Set the 'VGA G/W R DRIVE' to 41.
7. Press the OK button to write the data.
8. Set picture to MIN.
9. Set the 'VGA G/W R CUT-OFF' to 32.
10. Adjust 'VGA G/W G CUT-OFF', and 'VGA G/W B CUT-OFF' with the left and right buttons so that the white balance becomes optimum.
11. Press the OK button to write the data for each item.

MCP SUB ADJUSTMENT

Item No	Adjustment menu	Data Amount
1	VGA /GW R DRIVE	41
2	VGA /GW G DRIVE	ADJ
3	VGA /GW B DRIVE	ADJ
4	VGA /GW R CUT-OFF	32
5	VGA /GW G CUT-OFF	ADJ
6	VGA /GW B CUT-OFF	ADJ

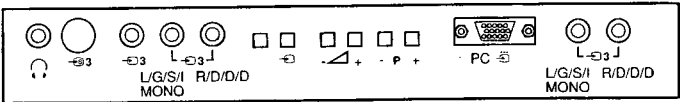
SECTION 4

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-862.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing the PROG + (plus) and PROG - (minus) buttons on the front panel.



2. "TT" will appear on the upper right corner of the screen.
3. Press " MENU " on the commander to get the service menu on screen.

DEVICES	
Init TV	
Sound	MSP3410D
Feature Box	C87654
Deflect Cont.	SDA9361
Deflect Cont.Subadjust	
MCP	CXA2101
MCP Subadjustment	
Col Dec.Main	TDA9144
Col Dec.Sub	TDA9143
MID2	CXD2072Q
MID2 Subadjust	
DA	SDA9280
Line 23 Detection	
Sub Adjust	
Port Expander	
Auto Wide	CXA2053

4. Push the joystick up (green) or down (blue) on the remote commander to select the adjustment item.
5. Press the center button to proceed to the next menu.
6. If the adjustment item is 'MCP CXA2101', push the down button to move to 'MCP CXA2101'.
7. The Menu as indicated in Fig 4-3 will appear on the screen.
8. Move the joystick up or down to move to the adjustment item and press the center (OK) button.
9. Change the data in order to comply with each standard.

Item No	Adjustment menu	Data Amount
1	RED	ON
2	GREEN	ON
3	BLUE	ON
4	CBLK	OFF
5	AKB T	OFF
6	BLK SW	OFF
7	DA TEST	OFF
8	HY SW	0
9	PICTURE	57
10	LIMIT LEVEL	1
11	HUE	31
12	SYSTEM	1
13	COLOR	31
14	AGE WHT	OFF
15	AGE BLK	OFF
16	BRIGHT	31
17	YS/YM SW	0
18	YM/VM SW	0
19	SHARPNESS	35
20	R DRIVE	41
21	D COL	0
22	CLP SW	1
23	G DRIVE	ADJ
24	B DRIVE	ADJ
25	CLP MSK	0
26	R CUT OFF	32
27	ABL MODE	2
28	G CUT OFF	ADJ
29	ABL TH	1
30	B CUT OFF	ADJ
31	SUB BRT	ADJ
32	H SEP SEL	1
33	FIX SEL	0
34	V - TC	2
35	H WIDTH	0
36	HD TC	1
37	HS MASK	1
38	CB OFF SET 1	7
39	CR OFF SET 1	7
40	CB OFF SET 2	7
41	CR OFF SET 2	7
42	SUB CON	
43	SUB COL	5
44	SUB HUE	8
45	CEC LEV	2
46	R-Y/R	13
47	R-Y/B	15
48	G-Y/R	8
49	G-Y/B	4
50	L RGB2 LEVEL	0
51	GAMMA	8
52	PABL LEVEL	7

Fig. 4-3

SDA9361 (DEFLECT. CONT.)

	ITEM	TV MODE		SVGA MODE		VGA MODE	
		SMART	WIDE	WIDE	4:3	WIDE	4:3
1	V SIZE	*	Adj(25)	*	*	*	*
2	V POSITION	*	Adj(222)	*	*	*	*
3	V LINEARITY	*	Adj(250)	*	*	*	*
4	S CORRECTION	*	Adj(200)	*	*	*	*
5	H SIZE	*	Adj(55)	*	*	*	*
6	PIN AMP	*	Adj(189)	*	*	*	*
7	UPPER CORNER PIN	*	Adj(76)	*	*	*	*
8	LOWER CORNER PIN	*	Adj(80)	*	*	*	*
9	V BOW	*	Adj(3)	*	*	*	*
10	PIN PHASE	*	Adj(203)	*	*	*	*
11	V ANGLE	*	Adj(5)	*	*	*	*
12	HDE	ON		ON		ON	
13	VRO	0		0		0	
14	RABL	ON		ON		ON	
15	BLK DIS	OFF		OFF		OFF	
16	F2*FH 2*LINE FREQ	ON		ON		ON	
17	STRY	OFF		OFF		OFF	
18	VERTICAL OFF	ON		ON		ON	
19	BSE BLK SELECT	ON		ON		ON	
20	SSE STAR	OFF		OFF		OFF	
21	SRSE STA	ON		ON		ON	
22	GBE GRUA	ON		ON		ON	
23	STE SCAN	OFF		OFF		OFF	
24	NSA SELF	ON		ON		ON	
25	V EHT	ADJ(186)		ADJ	ADJ	ADJ	ADJ
26	H EHT	ADJ(185)		ADJ	ADJ	ADJ	ADJ
27	H CENT	ADJ(32)		ADJ		ADJ	
28	PWM STAR	0		0		0	
29	D/A	0		0		0	
30	V BLK T	ADJ(21)		ADJ		ADJ	
31	H BLK T	ADJ(40)		ADJ		ADJ	
32	START V SCAN	0		0		0	
33	H BLANK PHASE	59		ADJ		ADJ	
34	V SCAN WIDTH 0	0		3		3	
35	V SCAN WIDTH 1	0		0		0	
36	GUARD BAND	0		0		0	
37	START REDUCED SCAN	0		0		0	
38	N FIELD	1		1		1	
39	NI NON INTERLACE	OFF		OFF		OFF	
40	NR VSYNC	OFF		OFF	OFF	OFF	OFF
41	SSC WITH VBL	ON		ON		ON	
42	MIN LINES / FIELD	0		0		0	
43	MAX LINES / FIELD	0		0		0	
44	AFC EHT	ADJ(55)		ADJ	ADJ(55)	ADJ	ADJ
45	PLL FREQ	6		6		6	
46	VCR	ON		ON		ON	
47	GEN MOD	OFF		OFF		OFF	
48	HS WID	ON		ON		ON	
49	INT H SYNC PHASE	ADJ(246)		ADJ		ADJ	
50	PWM WIDTH	0		0		0	
51	NOISY VCR	OFF		OFF		OFF	
52	KILL ZIP	OFF		OFF		OFF	
53	TC 3RD	OFF		OFF		OFF	
54	BANDG 4 OFF	OFF		OFF		OFF	
55	BANDG OFF	OFF		OFF		OFF	
56	BAND GAP 0	ADJ					

* REFER TO ' DEFLECT CONT. SUBADJUST ' MENU

DEFLECT CONT. SUBADJUST

Item No	Adjustment menu	Data Amount
1	SMART V SIZE OFF	25
2	SMART V CENTER OFF	222
3	SMART V LINEARITY OFF	250
4	SMART S CORRECTION OFF	200
5	SMART H SIZE OFF	61
6	SMART PIN AMP OFF	194
7	SMART UP CORNER PIN OFF	75
8	SMART LO CORNER PIN OFF	80
9	SMART V BOW OFF	3
10	SMART PIN PHASE OFF	203
11	SMART V ANGLE OFF	5
12	VGA 4:3 V SIZE OFF	-15
13	VGA 4:3 V CENTER OFF	229
14	VGA 4:3 V LINEARITY OFF	260
15	VGA 4:3 S CORRECTION OFF	191
16	VGA 4:3 H SIZE OFF	-57
17	VGA 4:3 PIN AMP OFF	172
18	VGA 4:3 UP CORNER PIN OFF	31
19	VGA 4:3 LO CORNER PIN OFF	35
20	VGA 4:3 V BOW OFF	3
21	VGA 4:3 PIN PHASE OFF	230
22	VGA 4:3 V ANGLE OFF	5
23	VGA 4:3 V EHT	156
24	VGA 4:3 H EHT	95
25	VGA 4:3 H CENTER	-51
26	VGA 4:3 V BLANK T	21
27	VGA 4:3 H BLANK T	47
28	VGA 4:3 H BLANK PHASE	59
29	VGA 4:3 AFC EHT	0
30	VGA 4:3 INT HSYNC PHASE	ADJ
31	VGA WIDE V SIZE OFF	-15
32	VGA WIDE V CENTER OFF	227
33	VGA WIDE V LINEARITY OFF	260
34	VGA WIDE S CORRECTION OFF	191
35	VGA WIDE H SIZE OFF	27
36	VGA WIDE PIN AMP OFF	184
37	VGA WIDE UP CORNER PIN OFF	84
38	VGA WIDE LO CORNER PIN OFF	110
39	VGA WIDE V BOW OFF	3
40	VGA WIDE PIN PHASE OFF	223
41	VGA WIDE V ANGLE OFF	6
42	VGA WIDE V EHT	166
43	VGA WIDE H EHT	135
44	VGA WIDE H CENTER	-52

Item No	Adjustment menu	Data Amount
45	VGA WIDE V BLANK T	21
46	VGA WIDE H BLANK T	47
47	VGA WIDE H BLANK PHASE	59
48	VGA WIDE AFC EHT	0
49	VGA WIDE INT HSYNC PHASE	ADJ 4
50	MID 4:3 V SIZE OFF	-15
51	MID 4:3 V CENTER OFF	229
52	MID 4:3 V LINEARITY OFF	260
53	MID 4:3 S CORRECTION OFF	191
54	MID 4:3 H SIZE OFF	-48
55	MID 4:3 PIN AMP OFF	172
56	MID 4:3 UP CORNER PIN OFF	31
57	MID 4:3 LO CORNER PIN OFF	35
58	MID 4:3 V BOW OFF	3
59	MID 4:3 PIN PHASE OFF	230
60	MID 4:3 V ANGLE OFF	5
61	MID 4:3 V EHT	156
62	MID 4:3 H EHT	95
63	MID 4:3 H CENTER	-51
64	MID 4:3 V BLANK T	21
65	MID 4:3 H BLANK T	47
66	MID 4:3 H BLANK PHASE	59
67	MID 4:3 AFC EHT	0
68	MID 4:3 INT HSYNC PHASE	ADJ 8
69	MID WIDE V SIZE OFF	-15
70	MID WIDE V CENTER OFF	230
71	MID WIDE V LINEARITY OFF	260
72	MID WIDE S CORRECTION OFF	191
73	MID WIDE H SIZE OFF	27
74	MID WIDE PIN AMP OFF	182
75	MID WIDE UP CORNER PIN OFF	84
76	MID WIDE LO CORNER PIN OFF	110
77	MID WIDE V BOW OFF	3
78	MID WIDE PIN PHASE OFF	223
79	MID WIDE V ANGLE OFF	5
80	MID WIDE V EHT	166
81	MID WIDE H EHT	135
82	MID WIDE H CENTER	-52
83	MID WIDE V BLANK T	21
84	MID WIDE H BLANK T	47
85	MID WIDE H BLANK PHASE	59
86	MID WIDE AFC EHT	0
87	MID WIDE INT HSYNC PHASE	ADJ 8

DEFLECTION SYSTEM ADJUSTMENT FOR TV

1. Enter into service menu and select "Deflect cont". The "Deflect cont SDA9361" adjustment menu will be displayed.
2. Select and adjust each item in Wide mode and Smart mode order to obtain the optimum image.
3. Enter into service menu and select "Deflect cont Subadjust". The "Deflect cont Subadjust" adjustment menu will be displayed.
4. Select and adjust "SMART PIN AMP OFF" in smart mode to obtain optimum image.
5. Enter into service menu and select "Port Expander". The "Port Expander" adjustment menu will be displayed.
6. Select and adjust "S-Cont" and "MP-Cont" in wide mode to obtain optimum image.
7. Select and adjust "Smart S-Cont" and "Smart MP-Cont" in smart mode to obtain optimum image.

DEFLECTION SYSTEM ADJUSTMENT FOR SVGA

1. Enter into service menu and select "Deflect cont". The "Deflect cont SDA9361" adjustment menu will be displayed.
2. Select and adjust each item in SVGA wide and 4:3 mode in order to obtain the optimum image.
3. Enter into service menu and select "Deflect cont Subadjust". The "Deflect cont Subadjust" adjustment menu will be displayed.
4. Select and adjust "MID 4:3 PIN AMP OFF" in SVGA 4:3 mode and "MID WIDE PIN AMP OFF" in SVGA wide mode to obtain optimum image.

DEFLECTION SYSTEM ADJUSTMENT

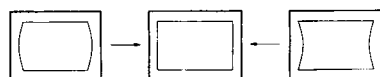
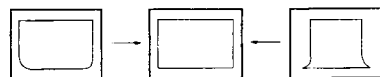
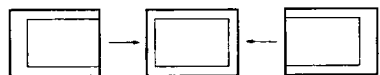
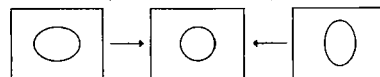
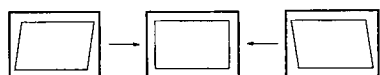
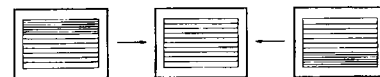
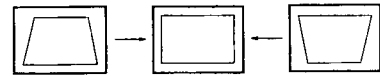
1. Enter into service menu and select "Deflect cont". The "Deflect cont SDA9361" adjustment menu will be displayed.
2. Measure the voltage at pin 18 of IC 2501 (A board).
3. Adjust item 56 "Band Gap 0" to obtain a voltage of 4.0V +/- 0.02V.

DEFLECTION SYSTEM ADJUSTMENT FOR VGA

1. Enter into service menu and select "Deflect cont". The "Deflect cont SDA9361" adjustment menu will be displayed.
2. Select and adjust each item in VGA wide and 4:3 mode in order to obtain the optimum image.
3. Enter into service menu and select "Deflect cont Subadjust". The "Deflect cont Subadjust" adjustment menu will be displayed.
4. Select and adjust "VGA 4:3 PIN AMP OFF" in VGA 4:3 mode and "VGA WIDE PIN AMP OFF" in VGA wide mode to obtain optimum image.
5. Enter into service menu and select "Port Expander". The "Port Expander" adjustment menu will be displayed.
6. Select and adjust "MID/VGA 4:3 MP-Cont" and "MID/VGA 4:3 S-Cont" in VGA 4:3 mode, and "MID/VGA WIDE MP-Cont" and "MID/VGA WIDE S-Cont" in VGA WIDE mode to obtain optimum image.
("MID/VGA 4:3 S-Cont" & "MID/VGA WIDE S-Cont" should only be adjusted for VGA mode. It is unnecessary to adjust these at SVGA mode.)

PORT EXPANDER

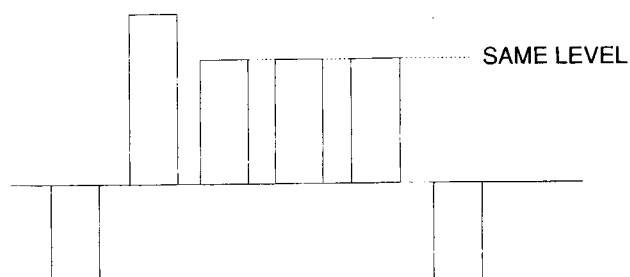
Item No	Adjustment menu	Data Amount
1	MCP U	255
2	MCP Y	255
3	MCP V	255
4	H-TRAP	128
5	V-PIN	128
6	V-CENTER	128
7	MP-CONT	177
8	S-CONT	15
9	PHA-FOCUS	128
10	SMART MP-CONT	159
11	SMART S-CONT	32
12	MID/VGA 4:3 MP-CONT	172
13	MID/VGA 4:3 S-CONT	28
14	MID/VGA WIDE MP-CONT	117
15	MID/VGA WIDE S-CONT	24

H PIN CUSH**H LOWER COR****H POS****S-CONT (SMART MODE)****AFC V ANGLE****H UP COR****V LIN****H TILT****AFC V BOW****S-CONT****H SIZE****V SIZE****V POS**

4-2. VOLUME ELECTRICAL ADJUSTMENTS

Sub Color Adjustment

1. Input a PAL color bar signal.
2. Connect an oscilloscope to CN701 pin 5 on C board.
3. Enter into 'SERVICE MODE'.
4. Choose 'MCP CXA2101'.
5. Enter into Sub Color mode.
6. Adjust data so that the right sides of the waveforms are of equal height.



MCP CXA2101

Item No	Adjustment menu	Data Amount
1	RED	ON
2	GREEN	ON
3	BLUE	ON
4	CBLK	OFF
5	AKB T	OFF
6	BLK SW	OFF
7	DA TEST	OFF
8	HY SW	0
9	PICTURE	57
10	LIMIT LEVEL	1
11	HUE	31
12	SYSTEM	1
13	COLOR	31
14	AGE WHT	OFF
15	AGE BLK	OFF
16	BRIGHT	31
17	YS/YM SW	0
18	YM/VM SW	0
19	SHARPNESS	35
20	R DRIVE	41
21	D COL	0
22	CLP SW	1
23	G DRIVE	ADJ
24	B DRIVE	ADJ
25	CLP MSK	0
26	R CUT OFF	32
27	ABL MODE	2
28	G CUT OFF	ADJ
29	ABL TH	1
30	B CUT OFF	ADJ
31	SUB BRT	ADJ
32	H SEP SEL	1
33	FIX SEL	0
34	V - TC	2
35	H WIDTH	0
36	HD TC	1
37	HS MASK	1
38	CB OFF SET 1	7
39	CR OFF SET 1	7
40	CB OFF SET 2	7
41	CR OFF SET 2	7
42	SUB CON	
43	SUB COL	5
44	SUB HUE	8
45	CEC LEV	2
46	R-Y/R	13
47	R-Y/B	15
48	G-Y/R	8
49	G-Y/B	4
50	L RGB2 LEVEL	0
51	GAMMA	8
52	PABL LEVEL	7

4-3. TEST MODE 2:

Is available by pressing the Test button twice, OSD "TT" appears. The functions described below are available by pressing the two numbers. To release the Test Mode 2, press '0' twice, or switch the TV into Standby Mode.

00	Switch Test Mode 2 off
01	Set minimum colour & picture to minimum
02	Direct access to Noise reduction (w/o OSD)
03	Set volume to 30%
04	'Service Mode' (Only in Pr.99 available)
05	'Production Mode' (Only in Pr. 99 available)
06	Set volume to 80%
07	Aging condition (Vol. min.; picture & brightness max.)
08	Shipping condition (Analog values are RESET due to factory setting. Prog. 1 is selected, TT mode off)
09	Language reset (Language menu appears when set is switched on)
10	Tenth entry is deleted
11	Direct access to balance (w/o OSD)
12	Direct access to HUE (w/o OSD)
13	Configuration menu
14	Display of Production information
15	Read factory setting from NVM, reads Volume, Balance, Treble, Bass, Brightness, Contrast, HUE, Sharpness, Colour values from ROM to the actual used values
16	Save actual Last Power Memory data
17	Preset label for AV sources
18	Text ON/OFF
19	Set volume to 50%
20	Tenth entry is deleted
21	Rotation coil test: -4 - > +4 - > 0
22	Operating timer and error monitor display
23	Direct access to sub brightness (w/o OSD)
24	Direct access to sub colour (w/o OSD)
25	Status menu display
26	Text caracater set selection: West Europe
27	Text caracater set selection: East Europe
28	Text caracater set selection: W. Europe-UK English
29	Text caracater set selection: West Europe Turkish
30	Tenth entry is deleted

31	Geometry adjustment; MPIP position
32	Geometry adjustment; main position
33	Multi PIP test
34	Photo mode test
35	Video muting ON/OFF
36	Line 23 detection off
37	Countermeasure against Phillips bug
38	Fast helper response
39	Reset program table
40	Tenth entry is deleted
41	NVM map
42	Auto shut-off test
43	Dolby off
44	Direct access to Sub Brightness adj. + Pic min.
45	Set NVM to protect mode
46	IR channel preseting mode
47	Headphone source selection (w/o OSD)
48	Direct access to speaker source
49	Erase the NVM test byte (This byte detects already stored NVM's). After selecting this function, switch TV off and on. The NVM will be preset by the micro
50	Tenth entry is deleted
51	Strobe test
52	Internal use only (Show task)
53	AI on/off
54	Direct access to VM (w/o OSD)
55	MTX Slicer control 'Low pass' (only Sys.L)
56	MTX Slicer control 'No compensation'
57	Megatext service menu ON
58	MTX small framing code window
59	MTX wide framing code window
60	Tenth entry is deleted
61	Set DOLBY default valves
62	Set balance to min.
63	Set balance to max.

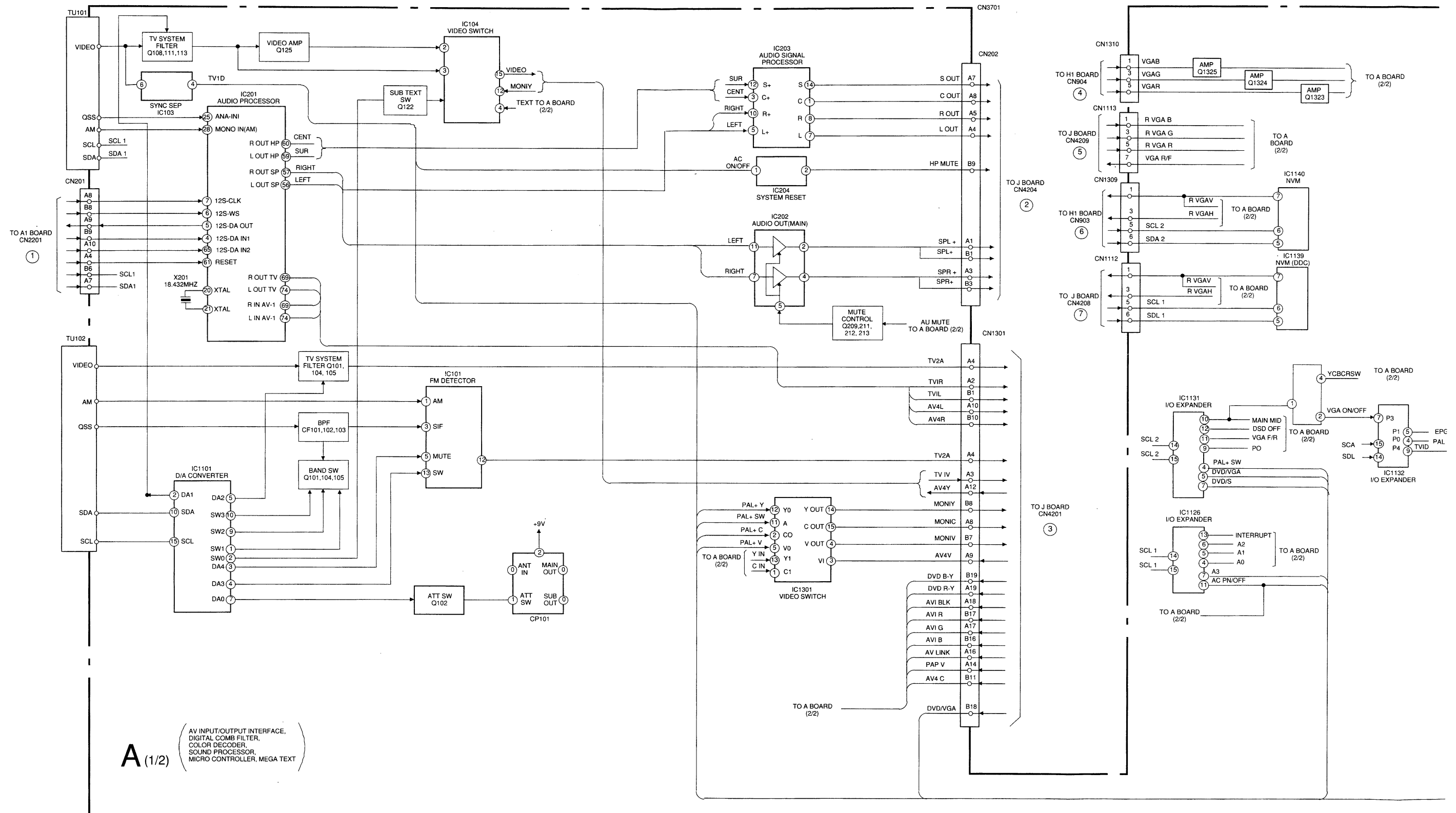
64	Reset all I2C Slave commands
65	Reset stored error codes in NVM
66	Reset for PAL + local controller and sub controller
67	Direct access to Headphone volume (w/o OSD)
68	Ignore errors on
69	Ignore errors off
70	Tenth entry is deleted
71	Picture rotation ON/OFF
72	Set default data of subadjustment menu
73	No function
74	Set default data of port expander menu
75	RGB gain and level of PAT
76	Set default data of deflection menu
77	Set default data of D/A converter menu
78	Set default data of line 23 menu
79	Default value for TDA 9144
80	Tenth entry is deleted
81	Set default data of feature box menu

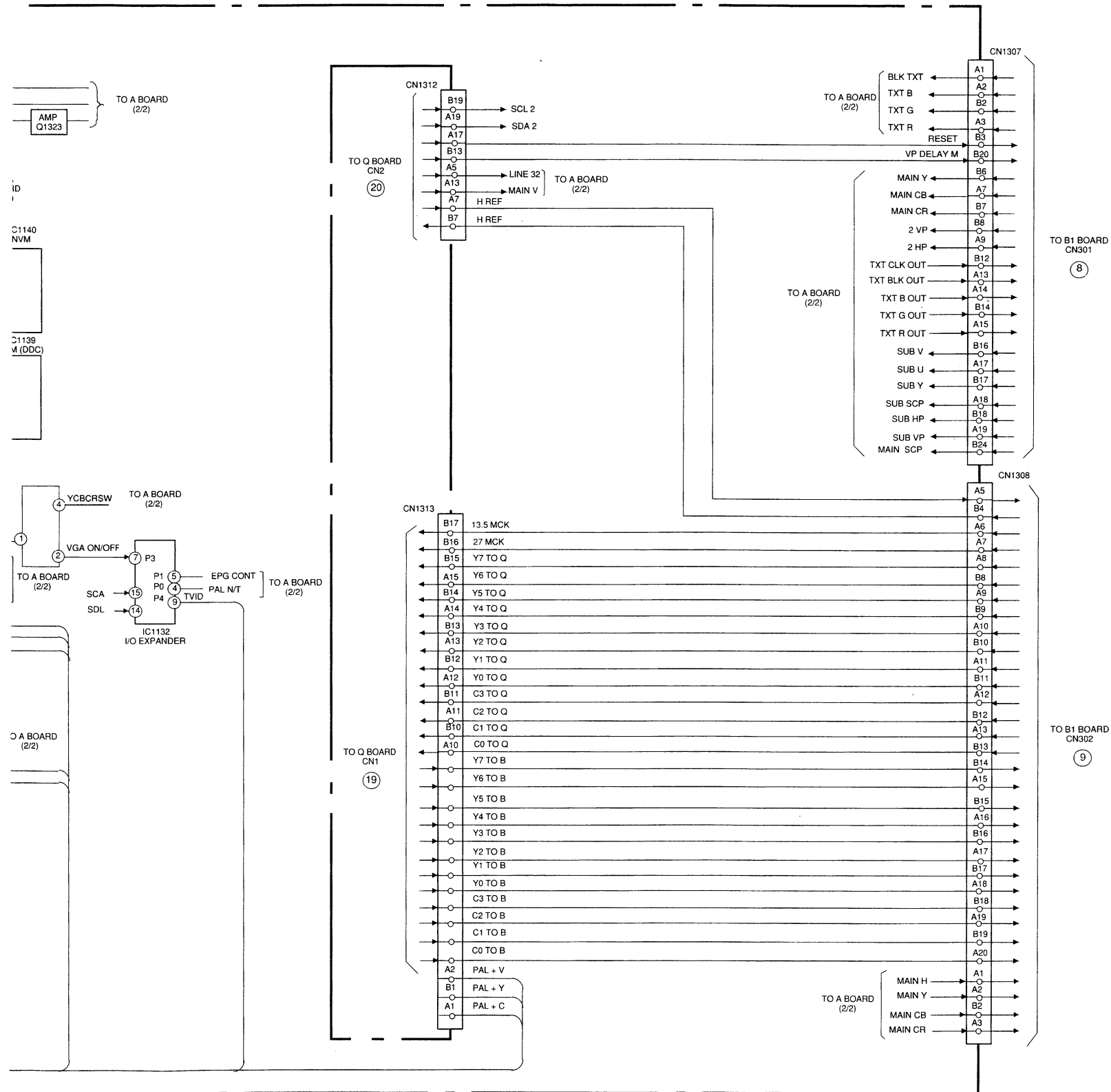
82	Set default data of MID menu
83	No function
84	Set default data of MCP menu
85	Set default data of color decoder main menu
86	Set default data of color decoder sub menu
87	Default value for SDA 9288
88	Text character set Russia/east
89	Text character set Russia/west
90	Tenth entry is deleted
91	DOLBY mode normal
92	ASIC on B-board toggle old/new
93	Set default data of MCP subadjust menu
94	Noise sequence `left`
95	Noise sequence `centre`
96	Noise sequence `right`
97	Noise sequence `surround`
98	Surround mode `off`
99	DOLBY mode `phantom`

MEMO

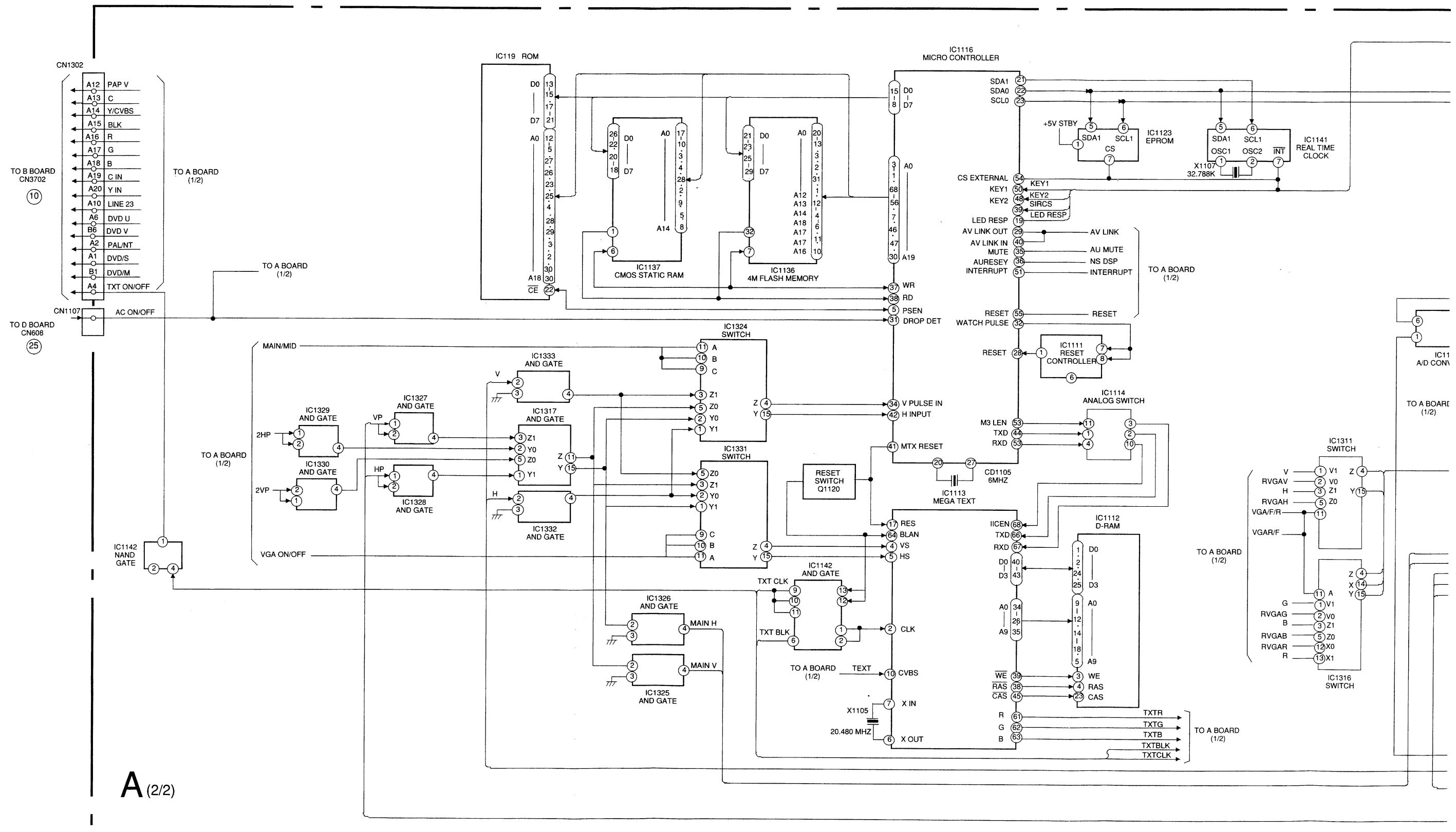
Lined area for writing the memo.

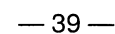
BLOCK DIAGRAM (1)



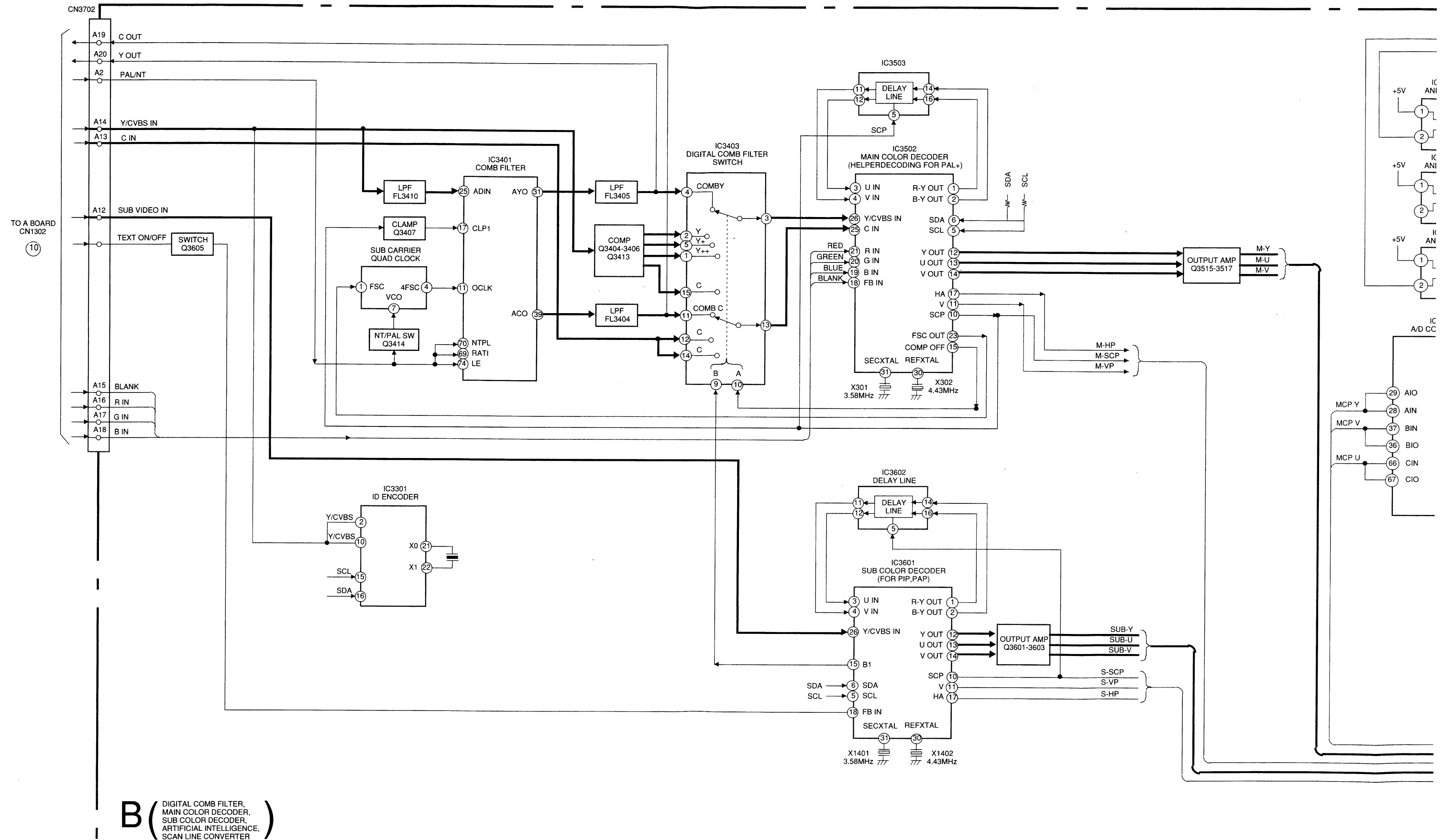


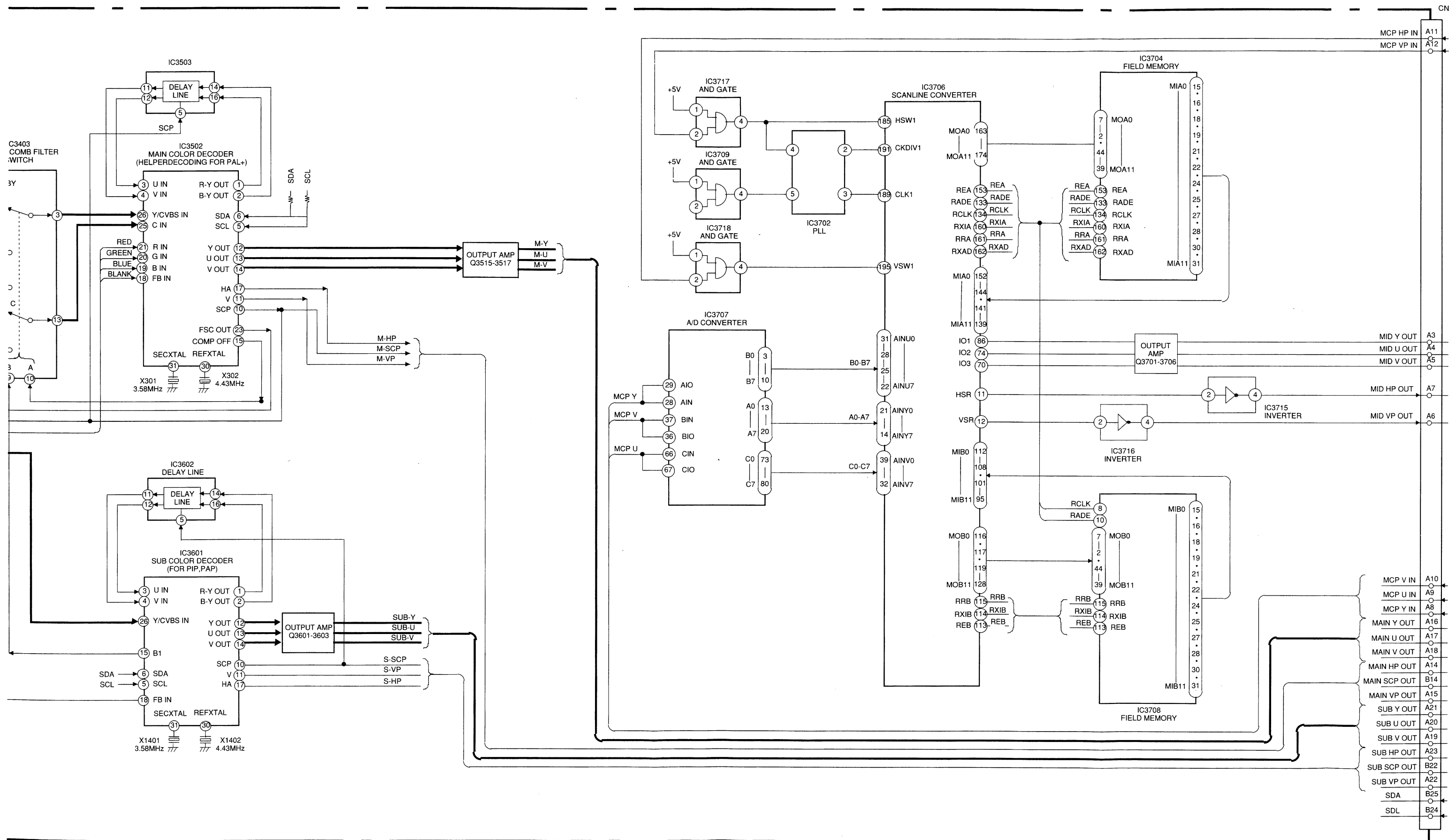
BLOCK DIAGRAM (2)

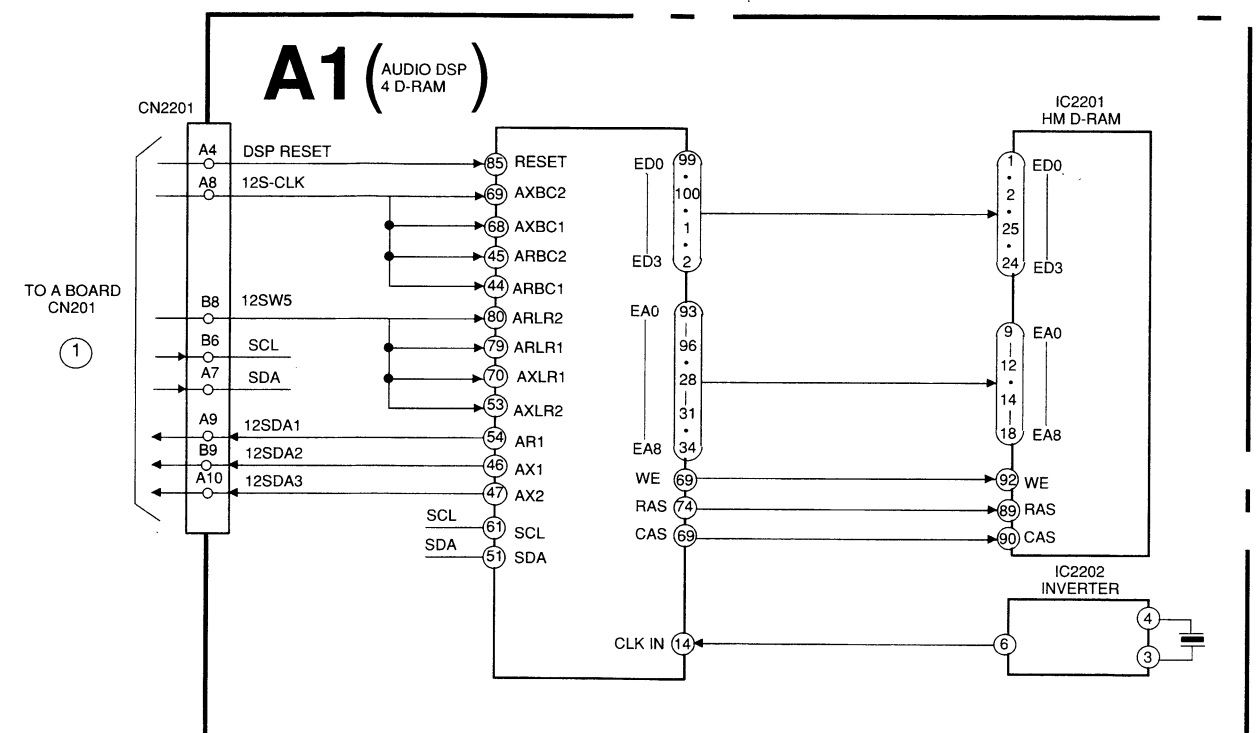
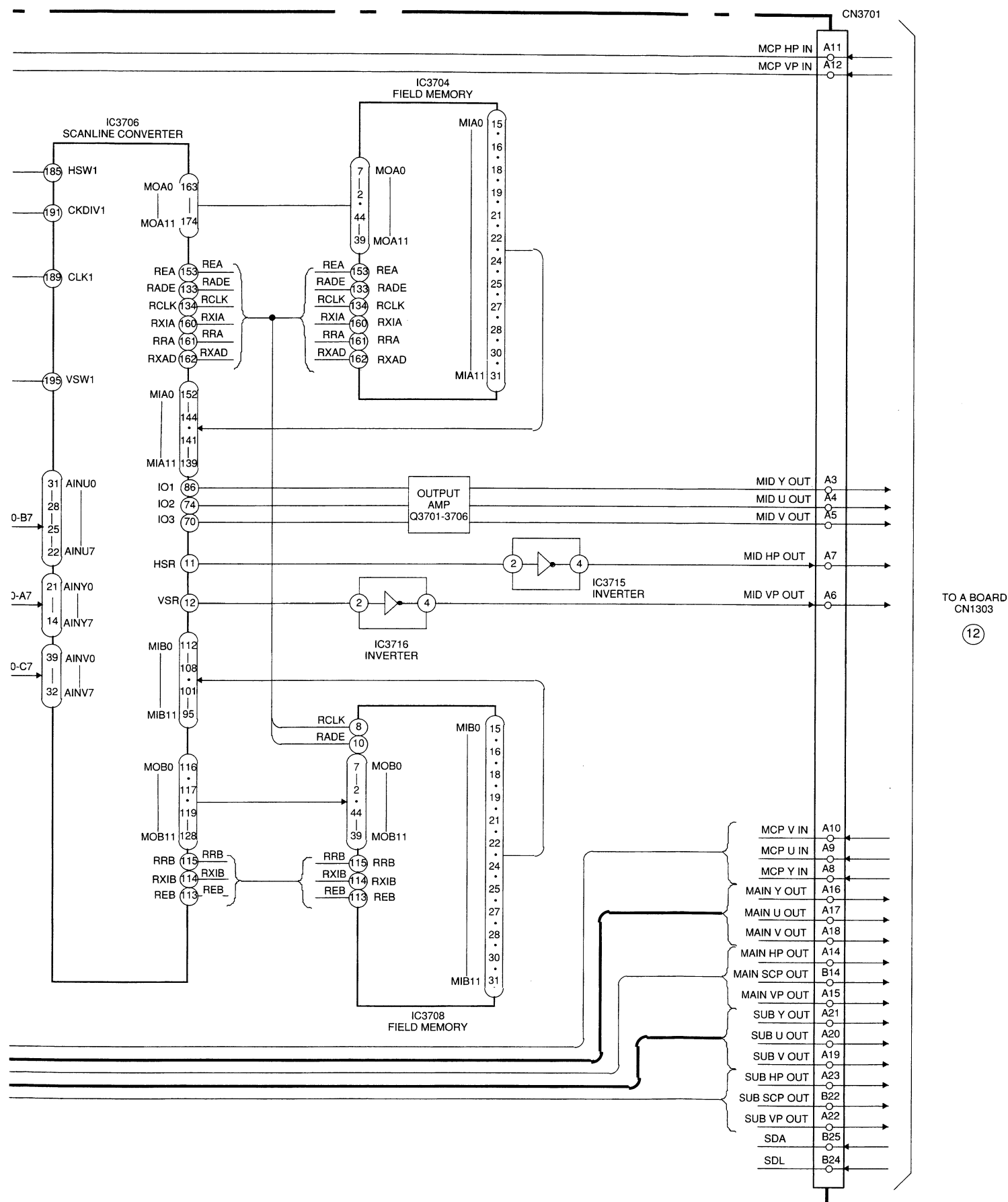




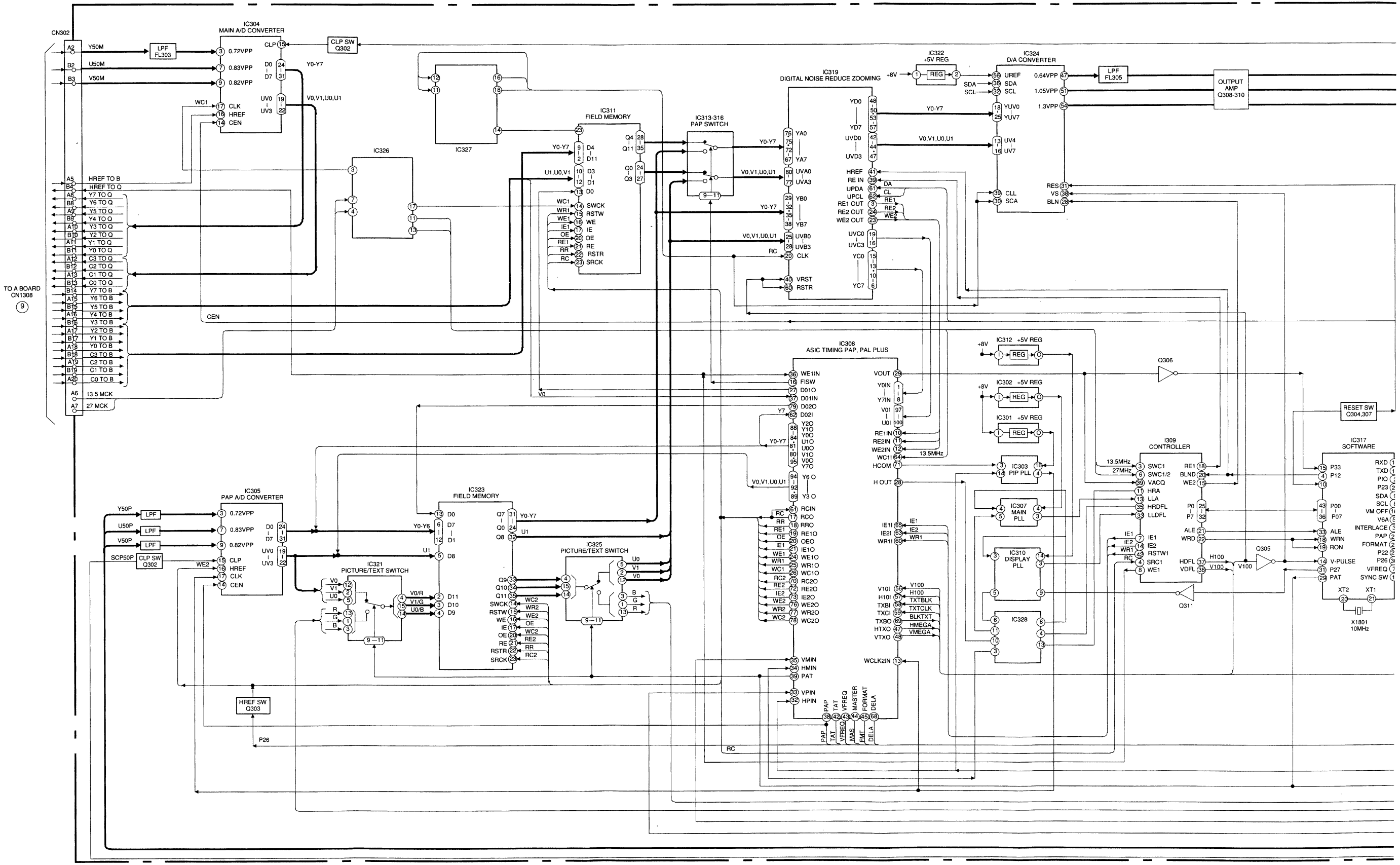
BLOCK DIAGRAM (3)

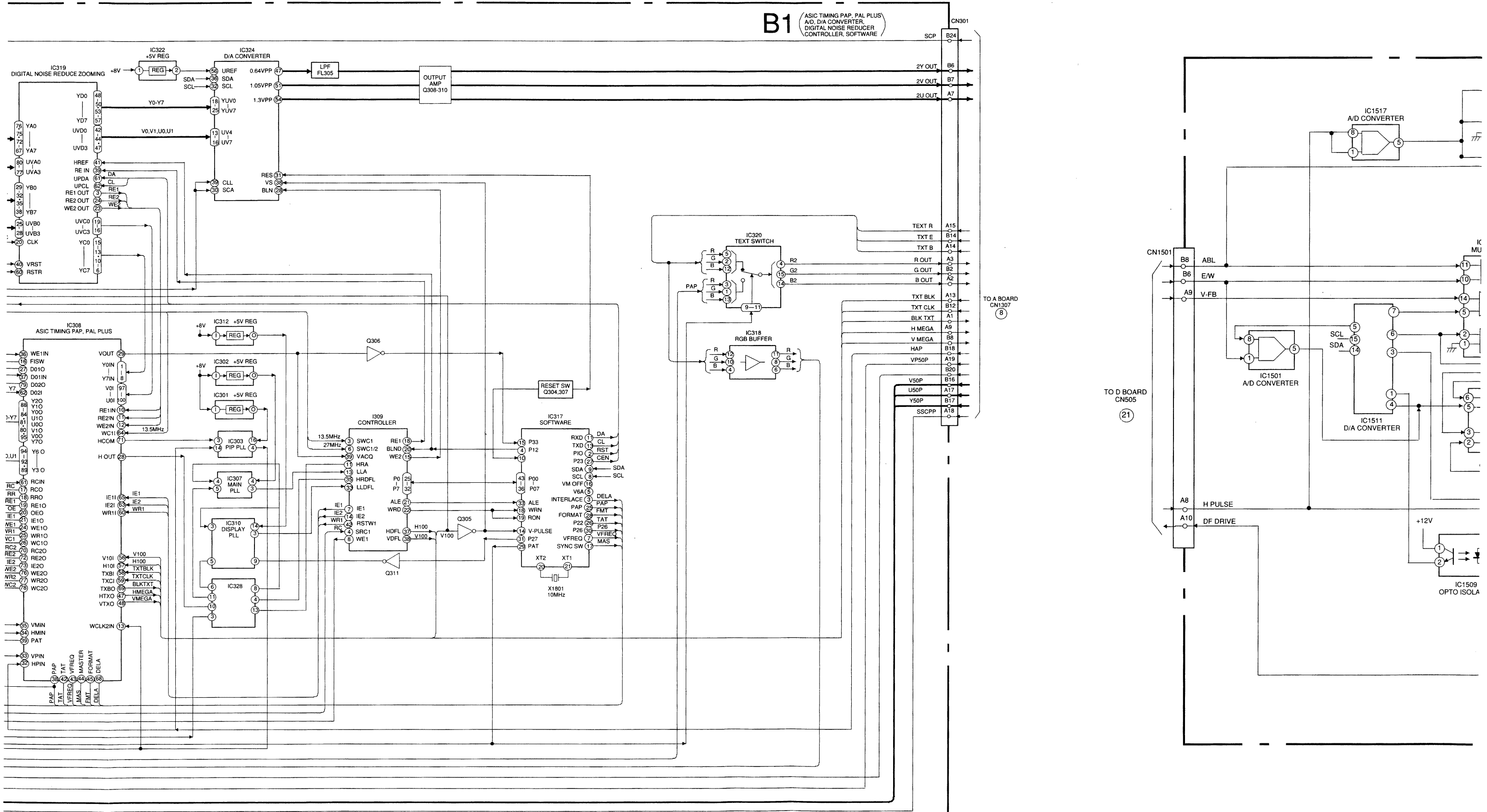


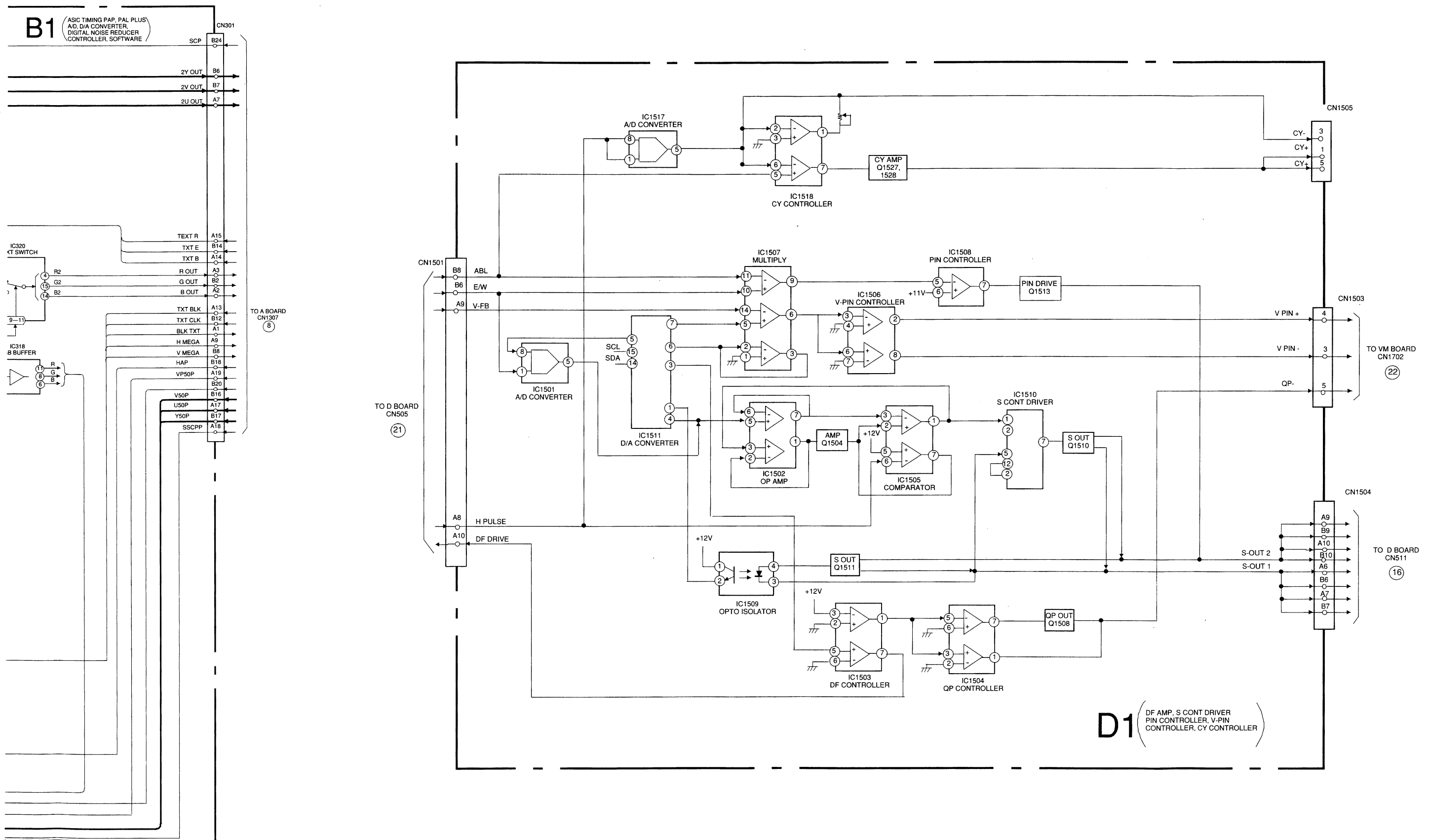




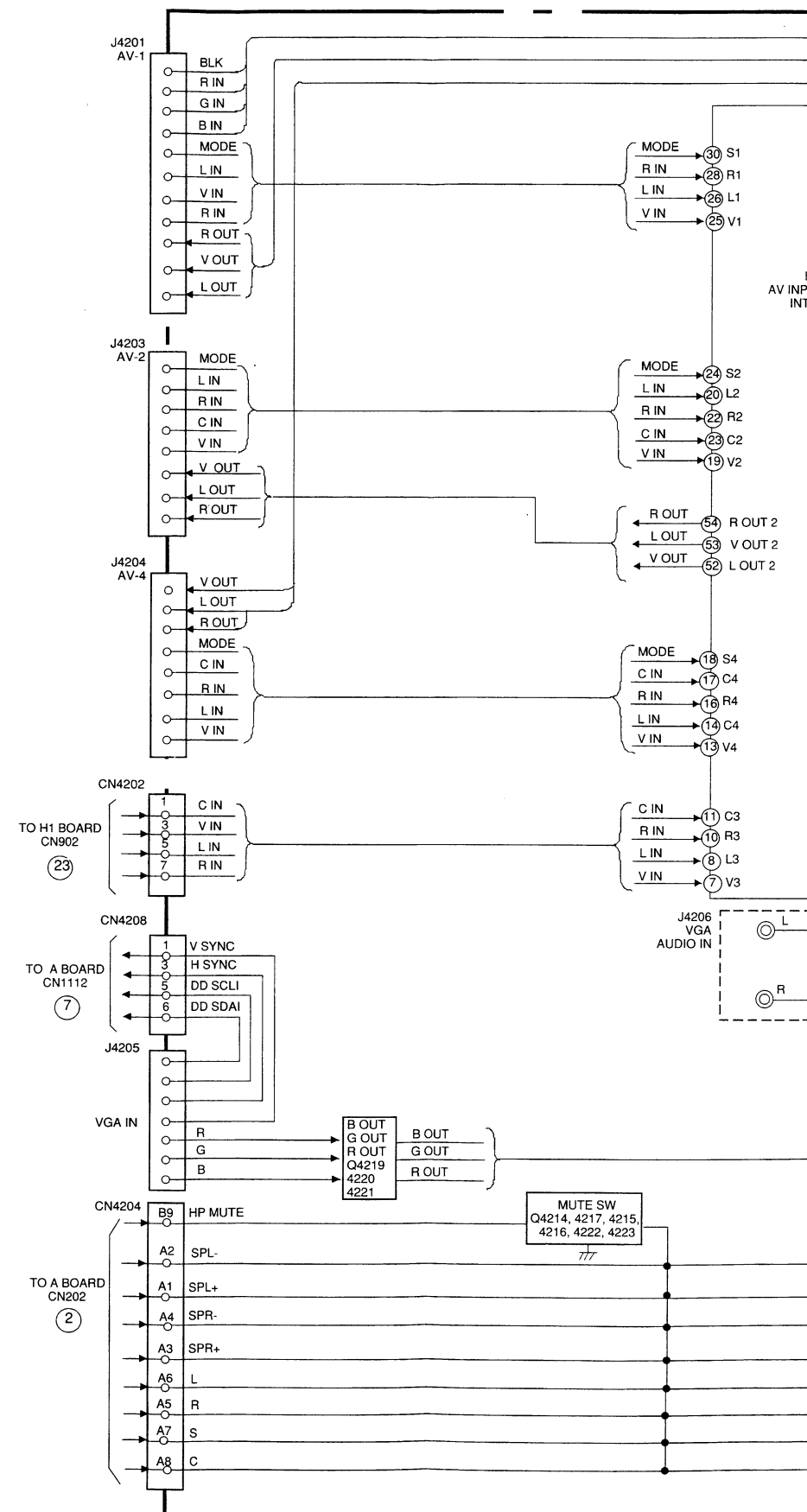
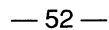
BLOCK DIAGRAM (4)

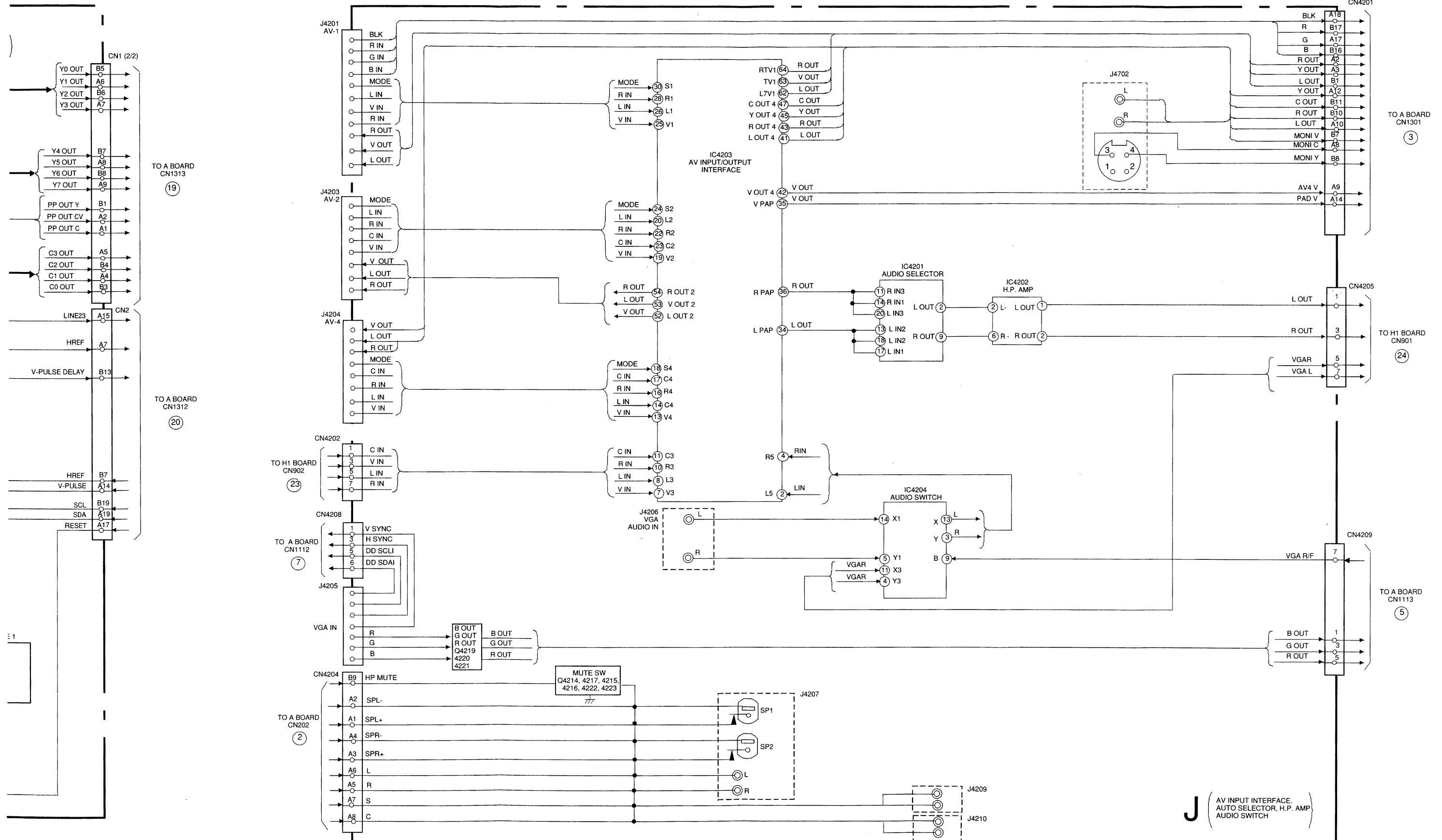




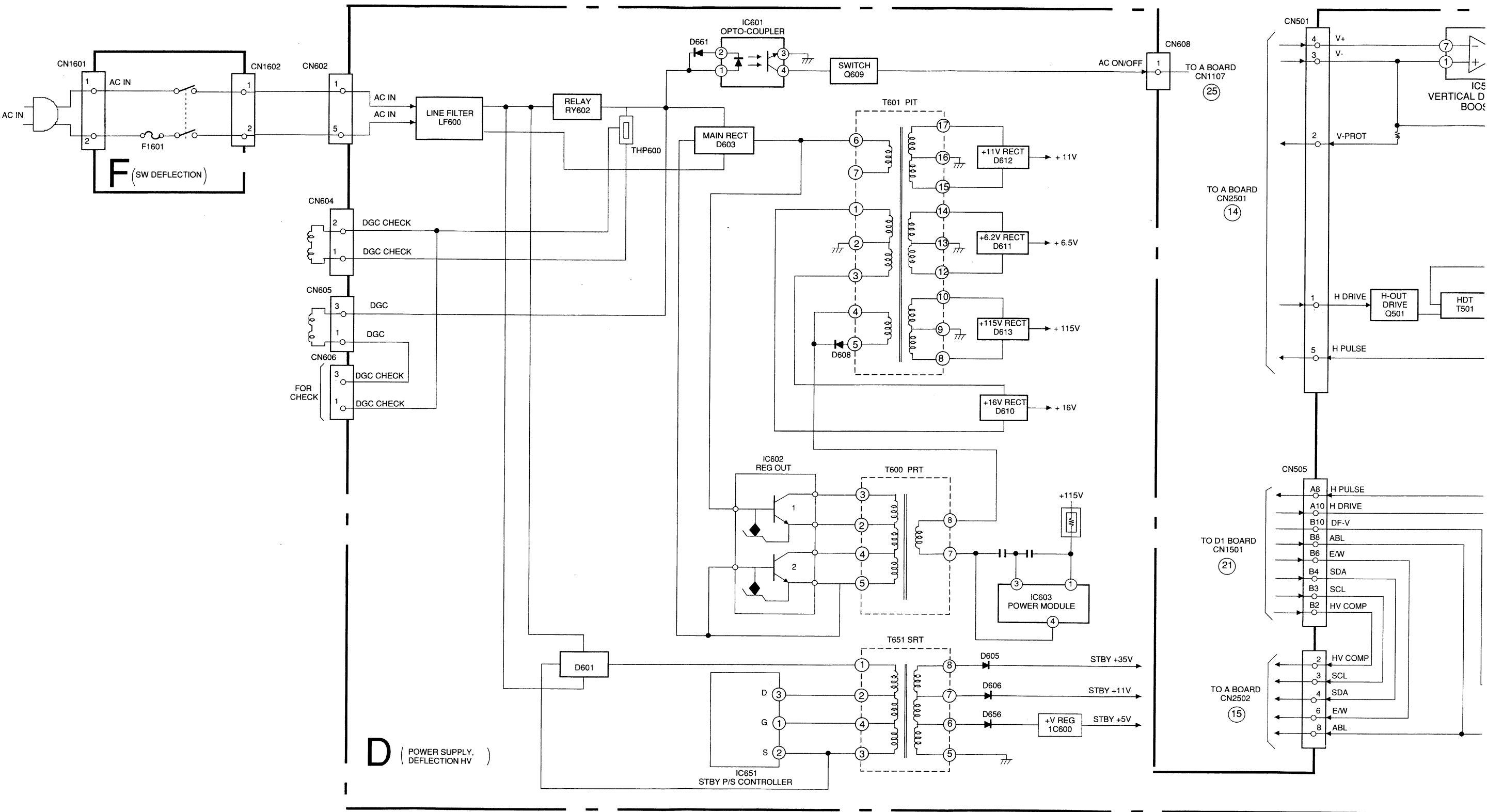


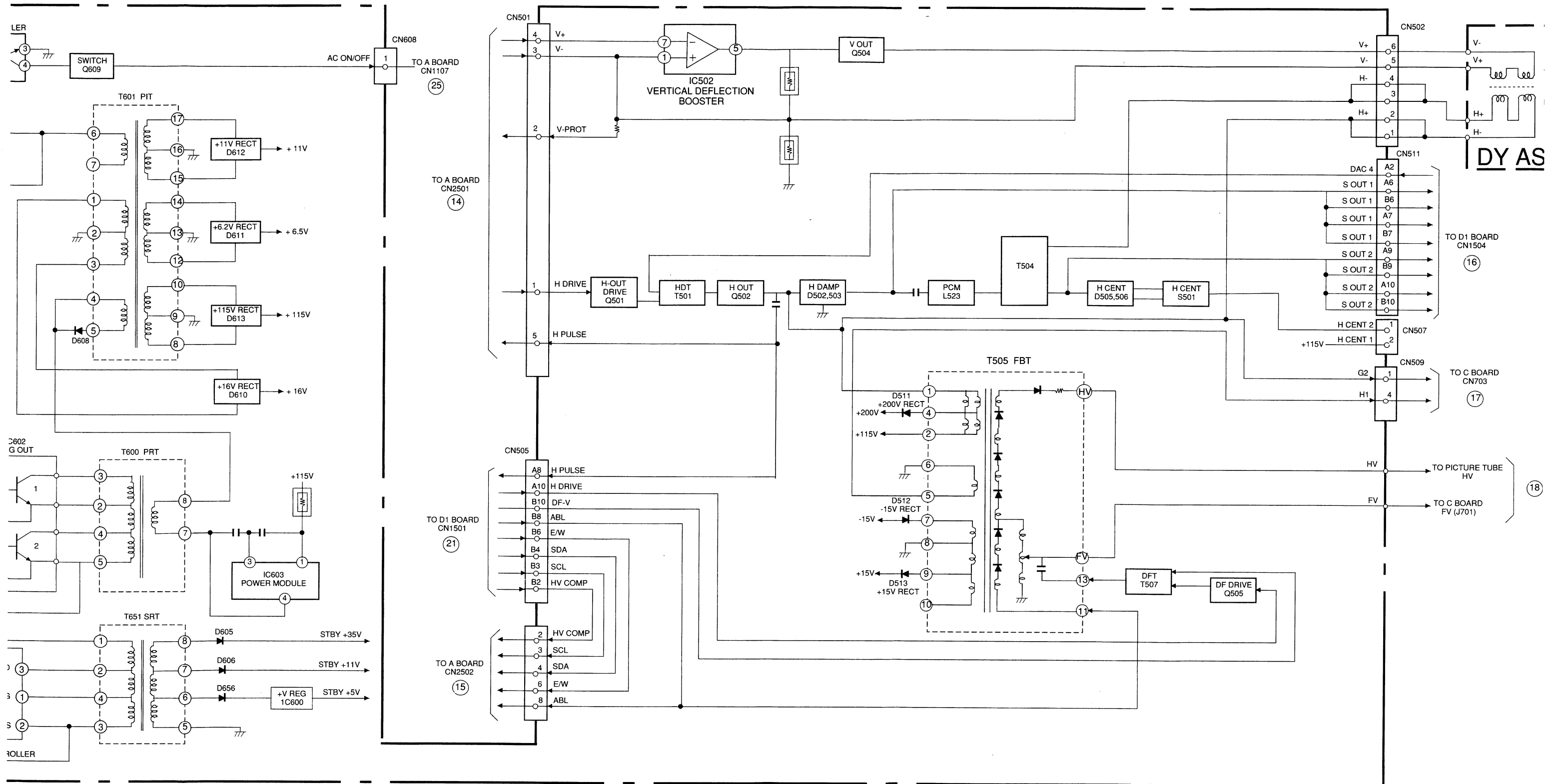
[illegible]

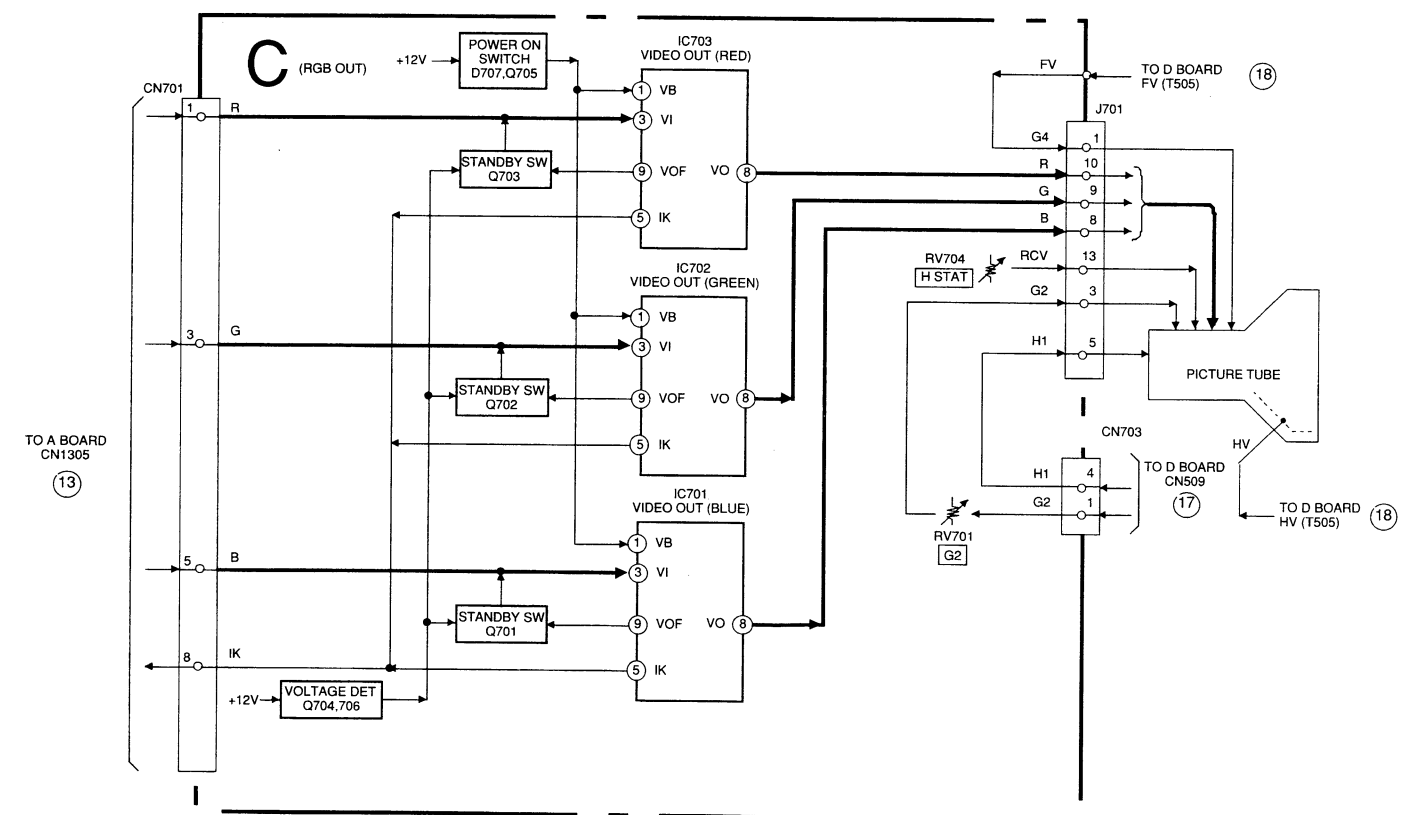
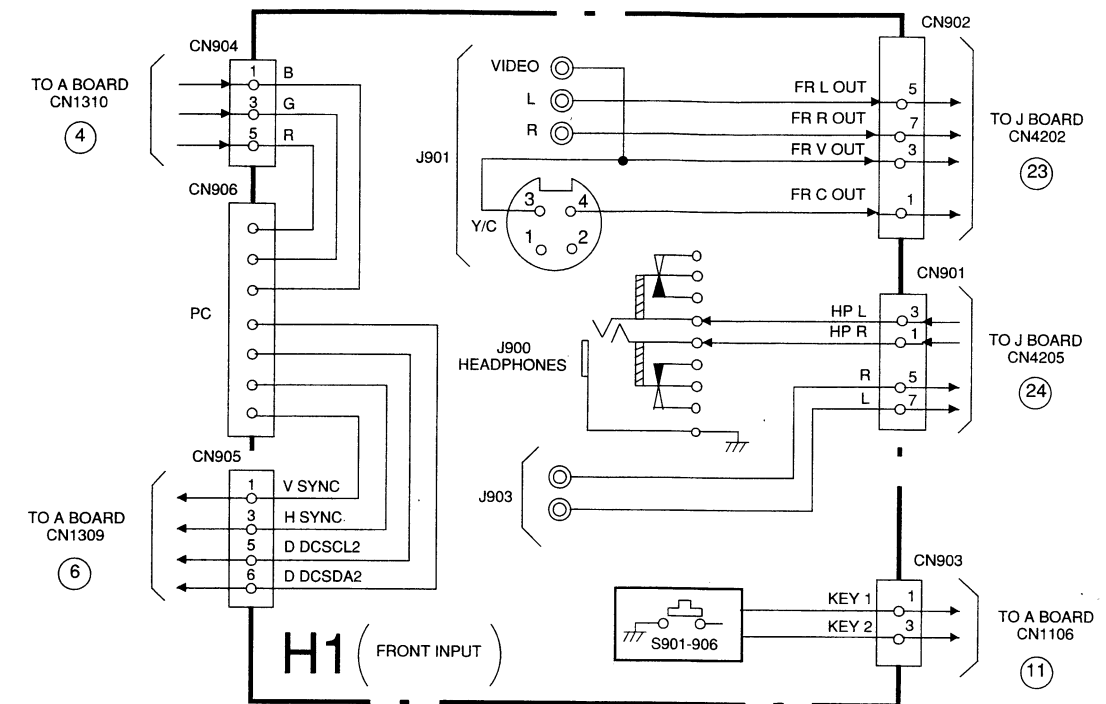
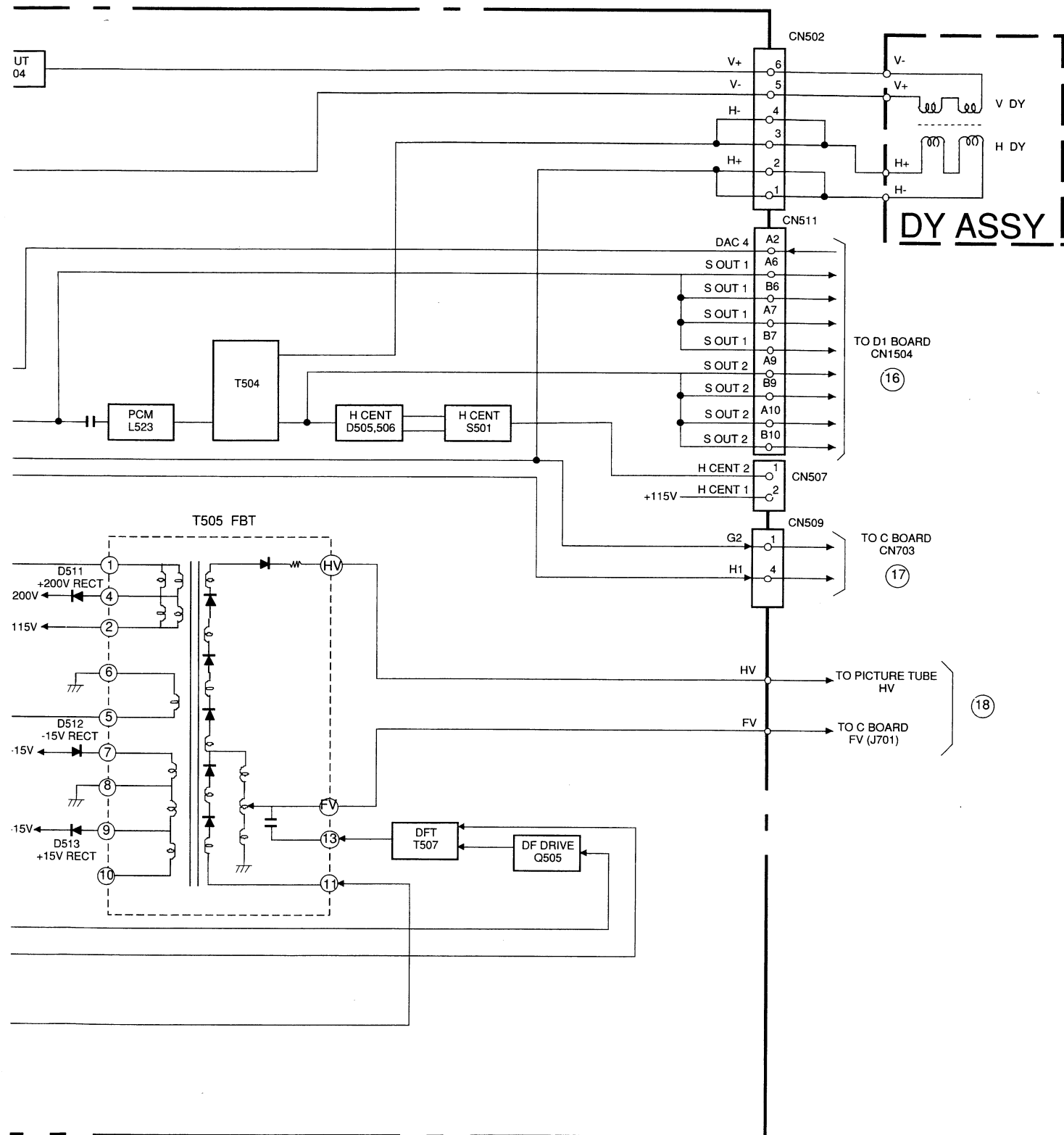




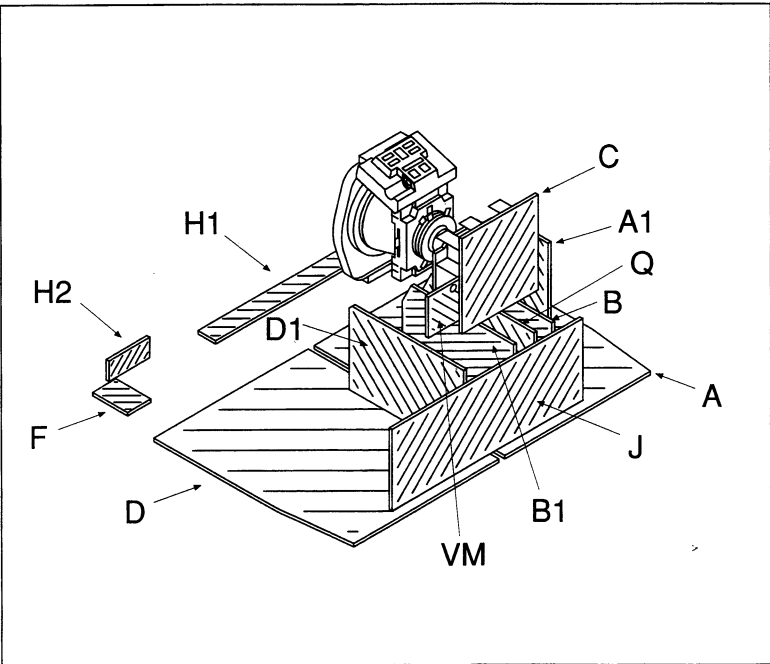
BLOCK DIAGRAM (6)







5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note :
- All capacitors are in μF unless otherwise noted. pF: μF
 - 50WV or less are not indicated except for electrolytic and tantalums.
 - All resistors are in ohms.
k = 1000 , M = 1000K
 - Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power $\frac{1}{4}$ W

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \perp : earth - ground.
- /// : earth - chassis.
- $\#$: no mounted.

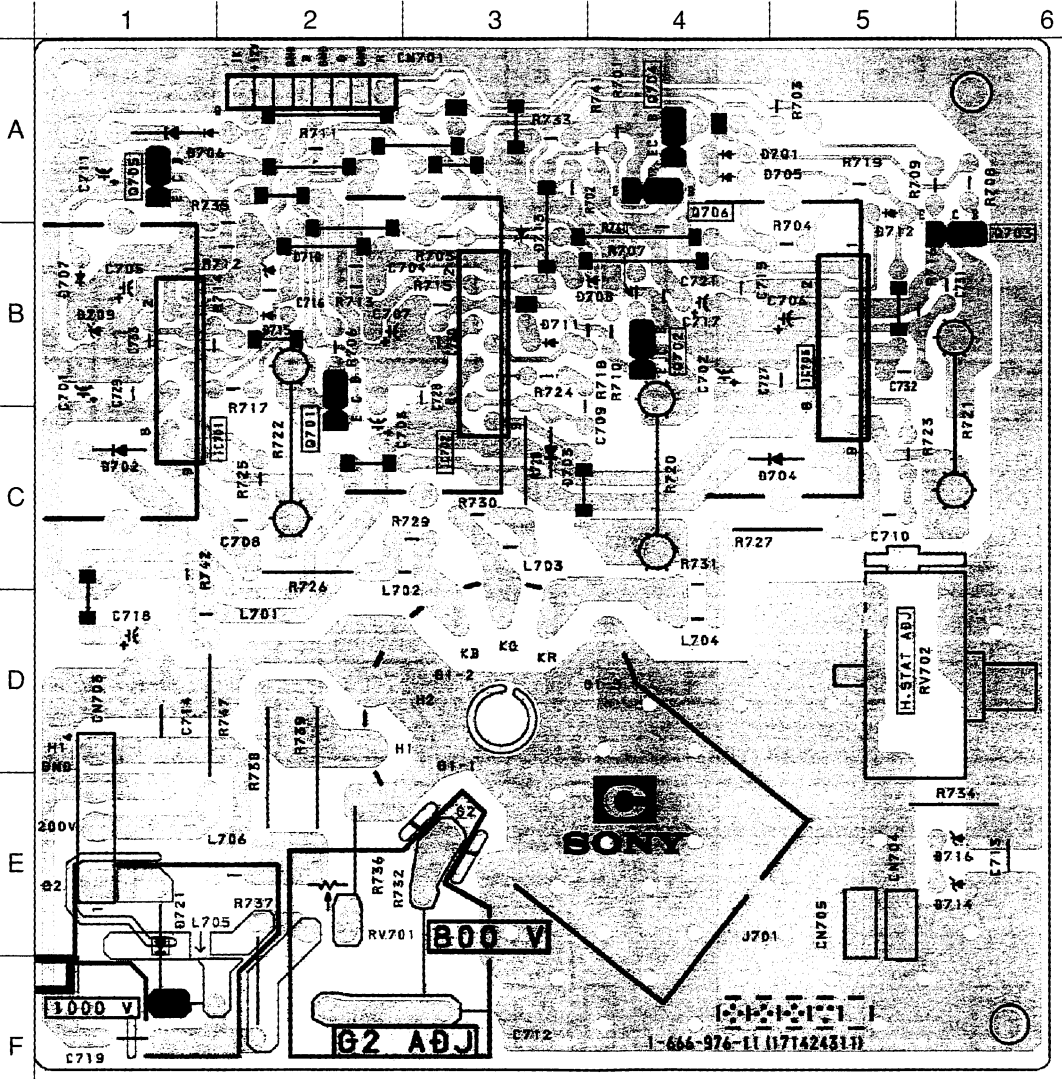
Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part number specified.

Note : Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

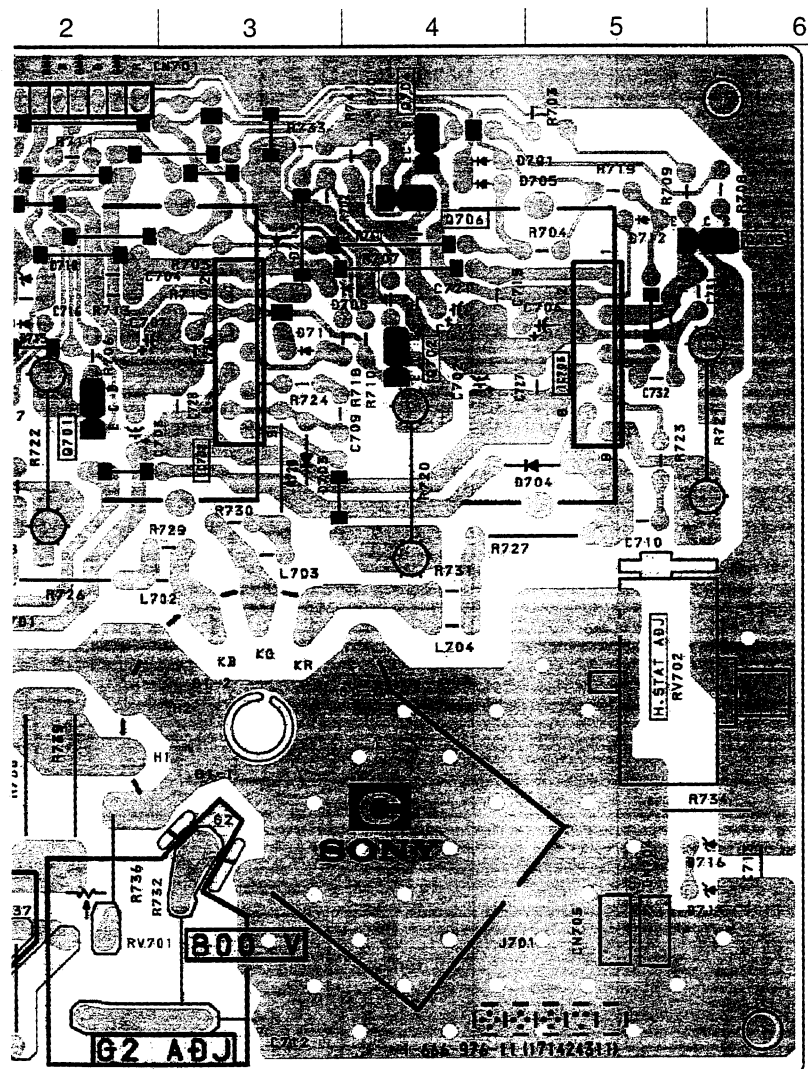
Reference information		
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: \times	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
	: TA	TANTALUM
CAPACITOR	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a colour-bar signal input.
- Readings are taken with 10M digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

C [R.G.B OUT]
C Board



7

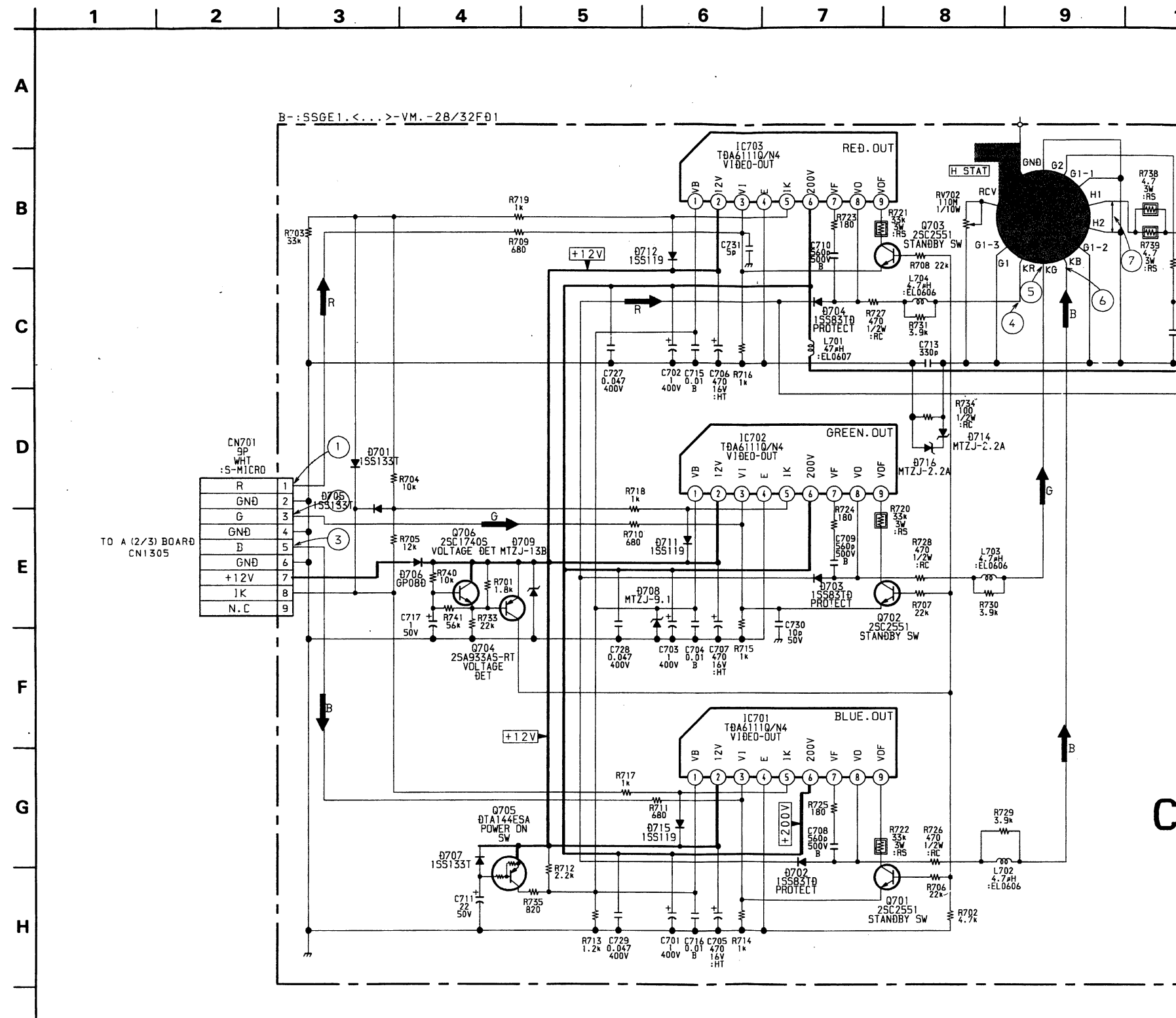


C BOARD

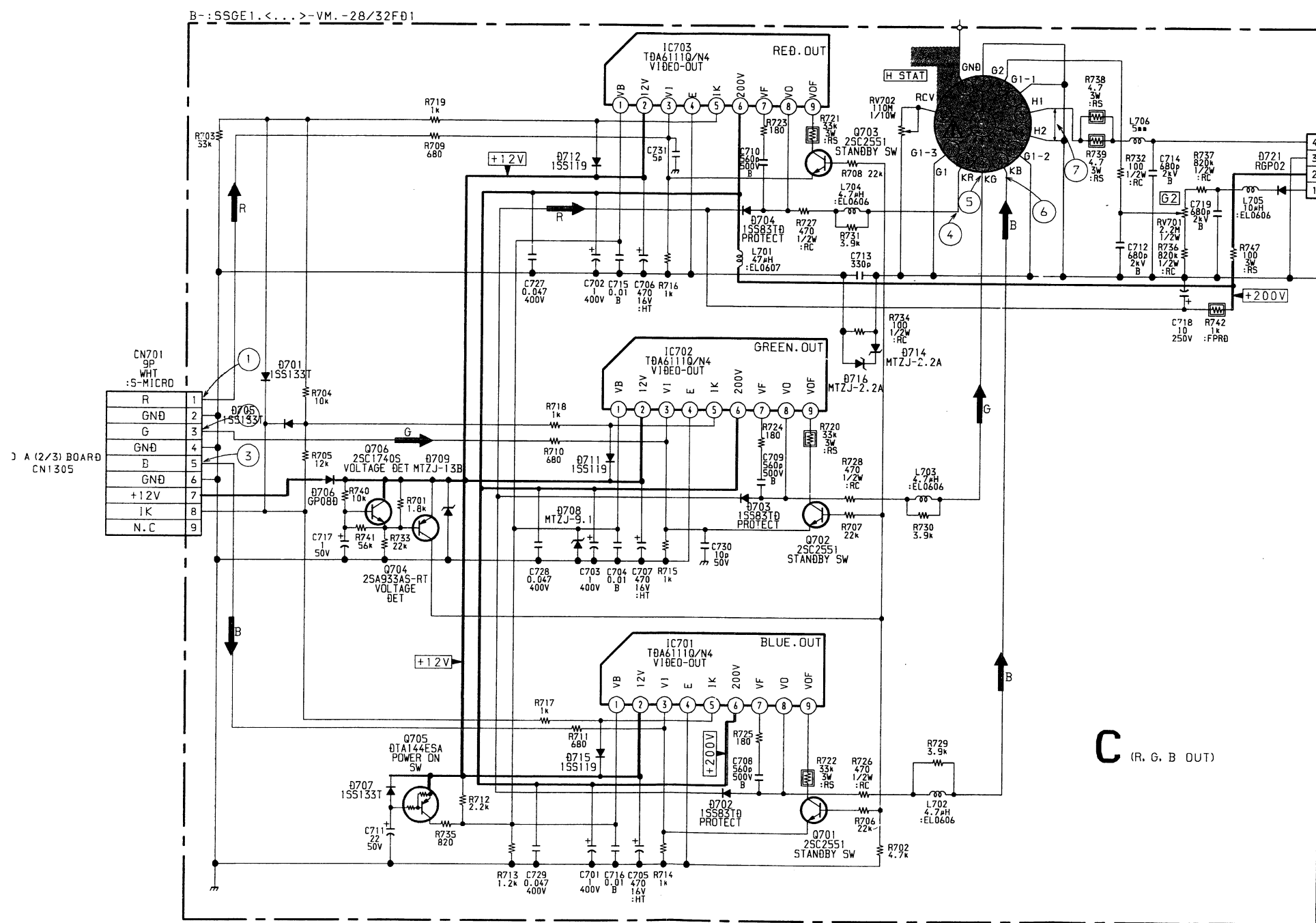
IC	
IC701	C-1
IC702	C-3
IC703	C-5
TRANSISTOR	
Q701	C-2
Q702	B-4
Q703	A-4
Q704	A-4
Q705	A-1
Q706	A-4
DIODE	
D701	A-4
D702	C-1
D703	C-3
D704	C-5
D705	A-4
D706	A-1
D707	B-1
D712	B-5
D714	E-5
D715	B-2
D716	E-5
D721	E-1
VARIABLE RESISTOR	
RV701	E-2
RV704	D-5

KV-28FD1/32FD1

KV-28FD1/32FD1



2 3 4 5 6 7 8 9 10 11 12 13 14 15



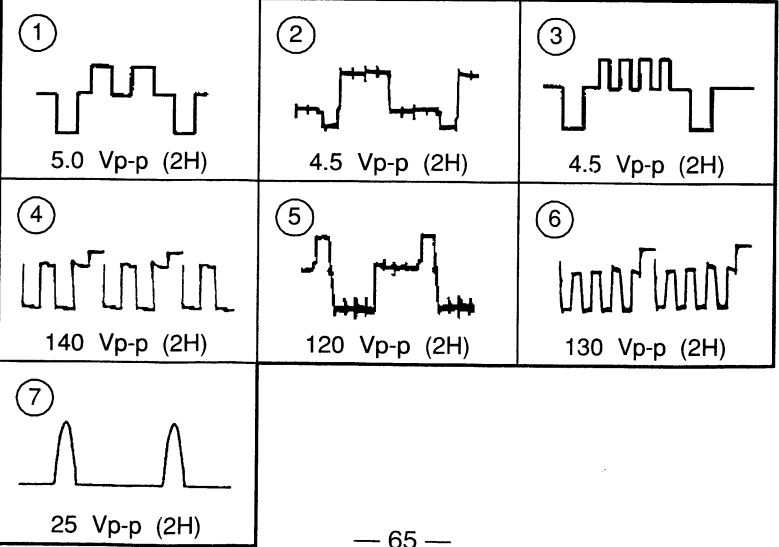
C BOARD
IC VOLTAGE TABLE

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC701	1	3.6
	2	11.4
	3	3.6
	5	7.5
	6	195.0
	7	102.0
	8	104.0
	9	101.0
IC702	1	3.6
	2	11.4
	3	3.6
	5	7.5
	6	195.0
	7	103.0
	8	107.0
	9	102.0
IC703	1	3.6
	2	11.4
	3	3.6
	5	6.4
	6	195.0
	7	97.0
	8	100
	9	96.8

C BOARD
TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q701	4.2	3.7	3.6
Q702	4.2	3.7	3.6
Q703	4.2	3.7	3.6
Q704	10.7	11.2	11.3
Q705	11.3	3.6	11.3
Q706	11.3	11.3	10.7
Q707	11.8	9.8	11.3

WAVEFORMS C BOARD



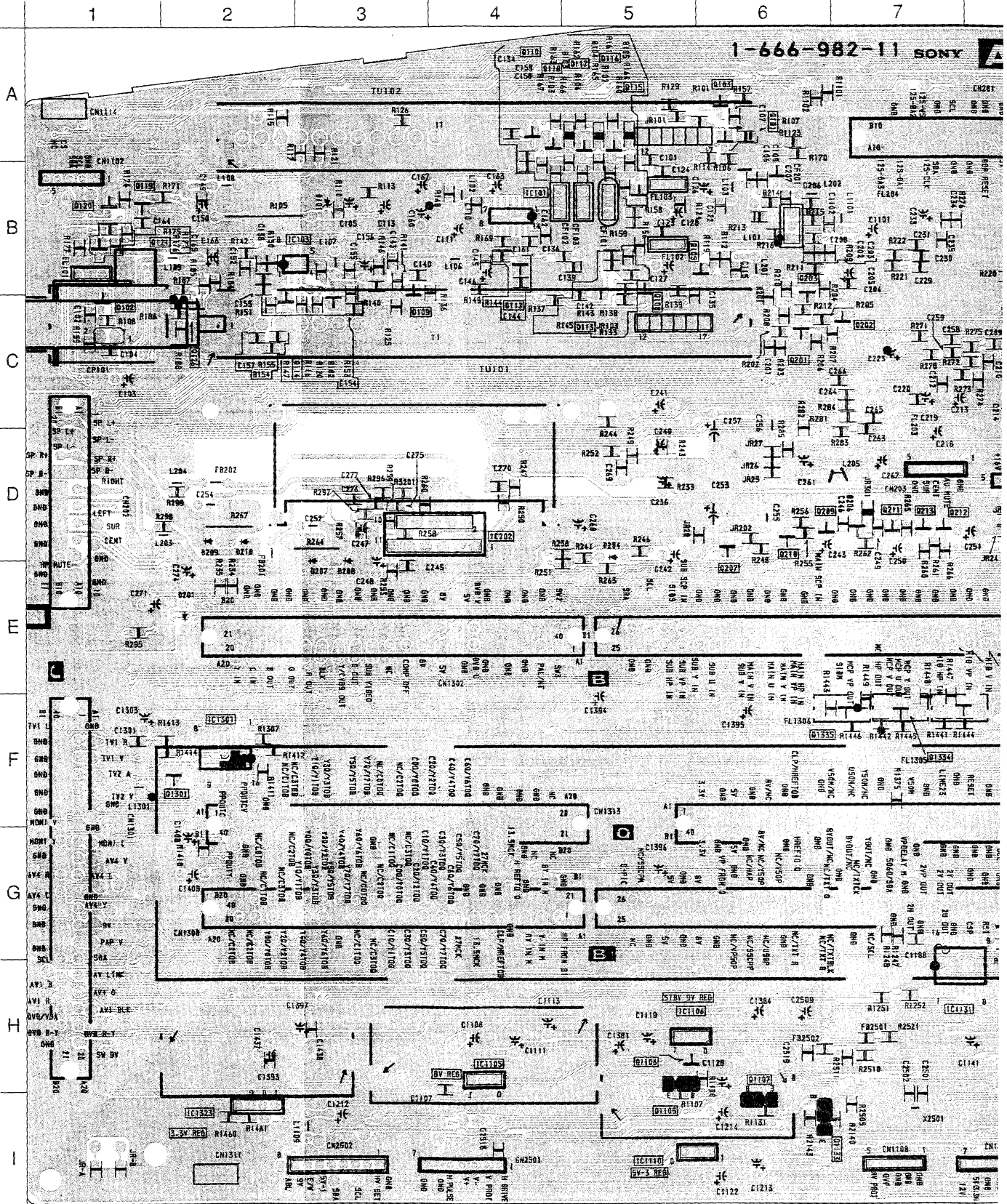
A

AUDIO PROCESSOR, AUDIO O
FM DETECTOR, D/A CONVERTE
SUB TUNER SYSTEM RESET

A BOARD

IC		IC1318	G-14	Q123	A-24	Q1131	A-9	D207	E-3	D1311	I-14
IC101	B-4	IC1319	E-10	Q124	A-24	Q1133	I-7	D208	E-3	D1312	H-12
IC103	B-2	IC1320	E-9	Q125	B-23	Q1301	F-2	D209	D-2	D1315	E-9
IC104	B-24	IC1321	E-10	Q126	B-22	Q1312	I-18	D210	D-2	D1316	F-9
IC201	C-17	IC1322	E-10	Q201	C-6	Q1313	I-18	D1105	B-10	D1317	G-16
IC202	D-4	IC1323	I-2	Q202	C-7	Q1315	H-15	D1106	B-10	D2501	H-18
IC203	C-19	IC1324	D-16	Q203	B-6	Q1316	H-11	D1107	B-10	D2502	H-18
IC204	E-24	IC1325	E-16	Q204	B-6	Q1317	H-11	D1108	B-10		
IC1101	A-19	IC1326	D-17	Q205	D-19	Q1318	H-13	D1109	C-15		
IC1105	H-4	IC1327	E-18	Q206	D-20	Q1320	F-10	D1110	B-16		
IC1106	H-19	IC1328	E-17	Q209	D-7	Q1321	F-8	D1115	C-11		
IC1108	I-17	IC1329	E-14	Q210	D-6	Q1322	H-15	D1116	C-10		
IC1109	H-11	IC1330	E-16	Q211	D-7	Q1323	F-10	D1117	C-10		
IC1110	I-20	IC1331	E-14	Q212	D-8	Q1324	F-8	D1118	D-10		
IC1111	C-11	IC1332	E-13	Q213	D-7	Q1325	F-9	D1119	C-15		
IC1112	B-13	IC1333	E-13	Q214	D-19	Q1326	E-16	D1120	C-14		
IC1113	B-14	IC1334	E-14	Q215	E-24	Q1327	F-16	D1121	C-13		
IC1114	A-16	IC2501	H-18	Q1105	H-5	Q1328	E-15	D1122	D-12		
IC1116	C-14	TRANSISTOR		Q1106	H-5	Q1329	E-14	D1123	E-12		
IC1119	C-12	Q101	A-6	Q1107	I-6	Q1330	F-13	D1124	I-17		
IC1121	I-15	Q102	C-1	Q1108	I-10	Q1331	F-13	D1125	I-17		
IC1123	D-10	Q103	A-6	Q1109	H-19	Q1332	H-15	D1126	I-17		
IC1126	A-10	Q104	B-24	Q1110	I-9	Q1333	I-19	D1127	I-17		
IC1131	H-7	Q105	B-6	Q1111	B-9	Q1334	F-7	D1128	I-17		
IC1132	E-15	Q108	C-5	Q1112	B-9	Q1335	F-7	D1129	H-17		
IC1133	C-16	Q109	C-4	Q1113	B-9	Q1336	G-15	D1130	H-17		
IC1134	C-10	Q110	A-4	Q1116	B-8	Q1337	F-15	D1131	H-17		
IC1135	D-9	Q111	B-20	Q1117	B-16	Q1338	F-10	D1132	H-17		
IC1136	D-14	Q112	B-4	Q1120	B-10	DIODE		D1133	G-9		
IC1137	E-13	Q113	C-5	Q1121	B-10	D101	B-3	D1134	G-14		
IC1138	C-11	Q114	C-3	Q1122	B-12	D102	C-3	D1135	G-14		
IC1139	I-17	Q115	A-5	Q1123	A-11	D103	A-5	D1136	G-11		
IC1140	H-16	Q116	A-5	Q1124	B-12	D104	A-5	D1137	G-10		
IC1141	B-16	Q117	A-5	Q1125	C-16	D105	A-5	D1138	G-10		
IC1142	B-11	Q118	A-5	Q1126	A-9	D201	E-2	D1139	B-15		
IC1301	F-2	Q119	B-1	Q1127	A-16	D203	E-24	D1140	B-15		
IC1311	H-16	Q120	B-1	Q1128	A-16	D204	E-5	D1141	C-17		
IC1316	F-16	Q121	B-2	Q1129	A-9	D205	D-8	D1142	A-10		
IC1317	E-16	Q122	A-24	Q1130	B-9	D206	D-9	D1310	H-11		

A Board < Conductor Side >

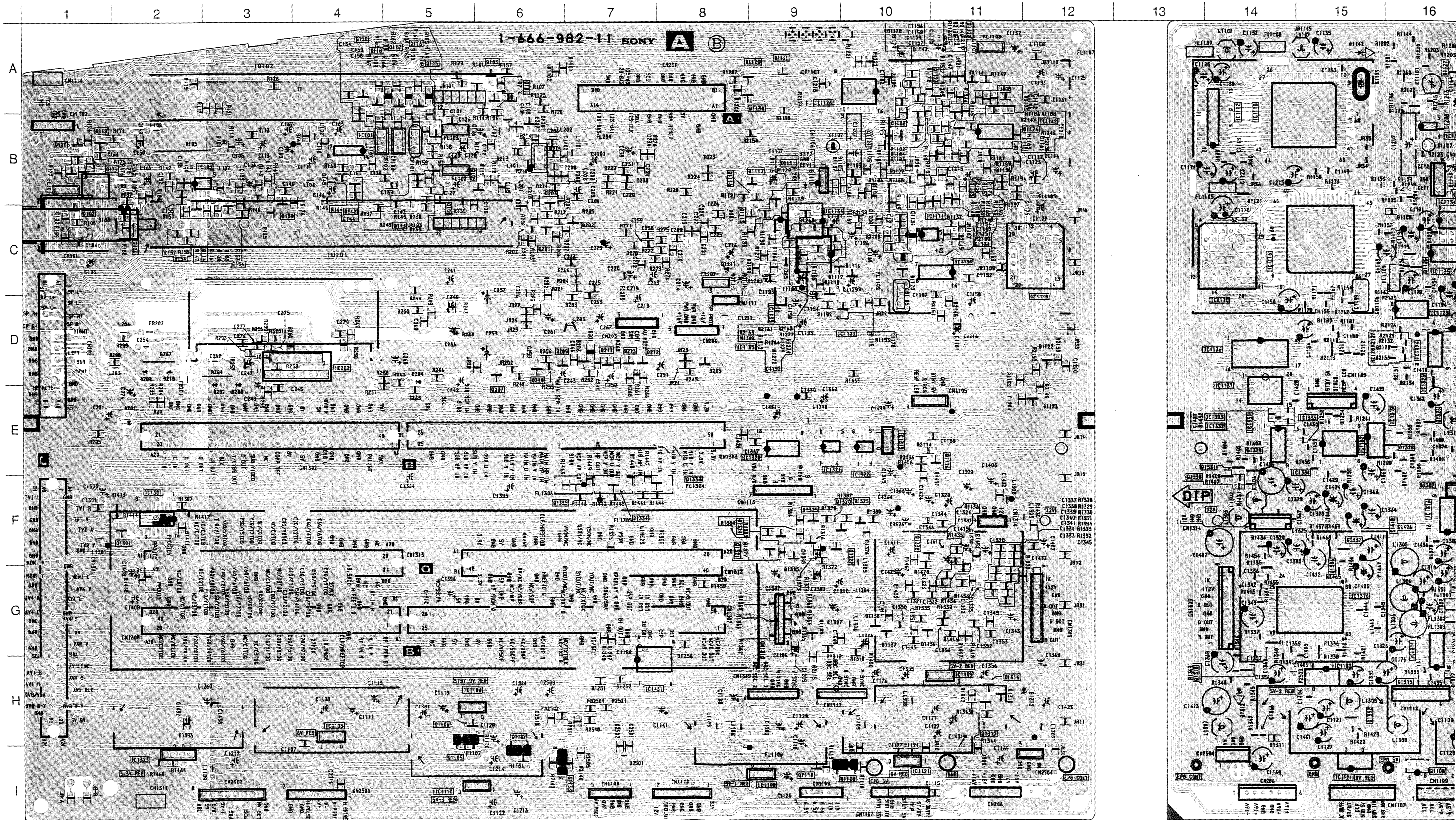


A

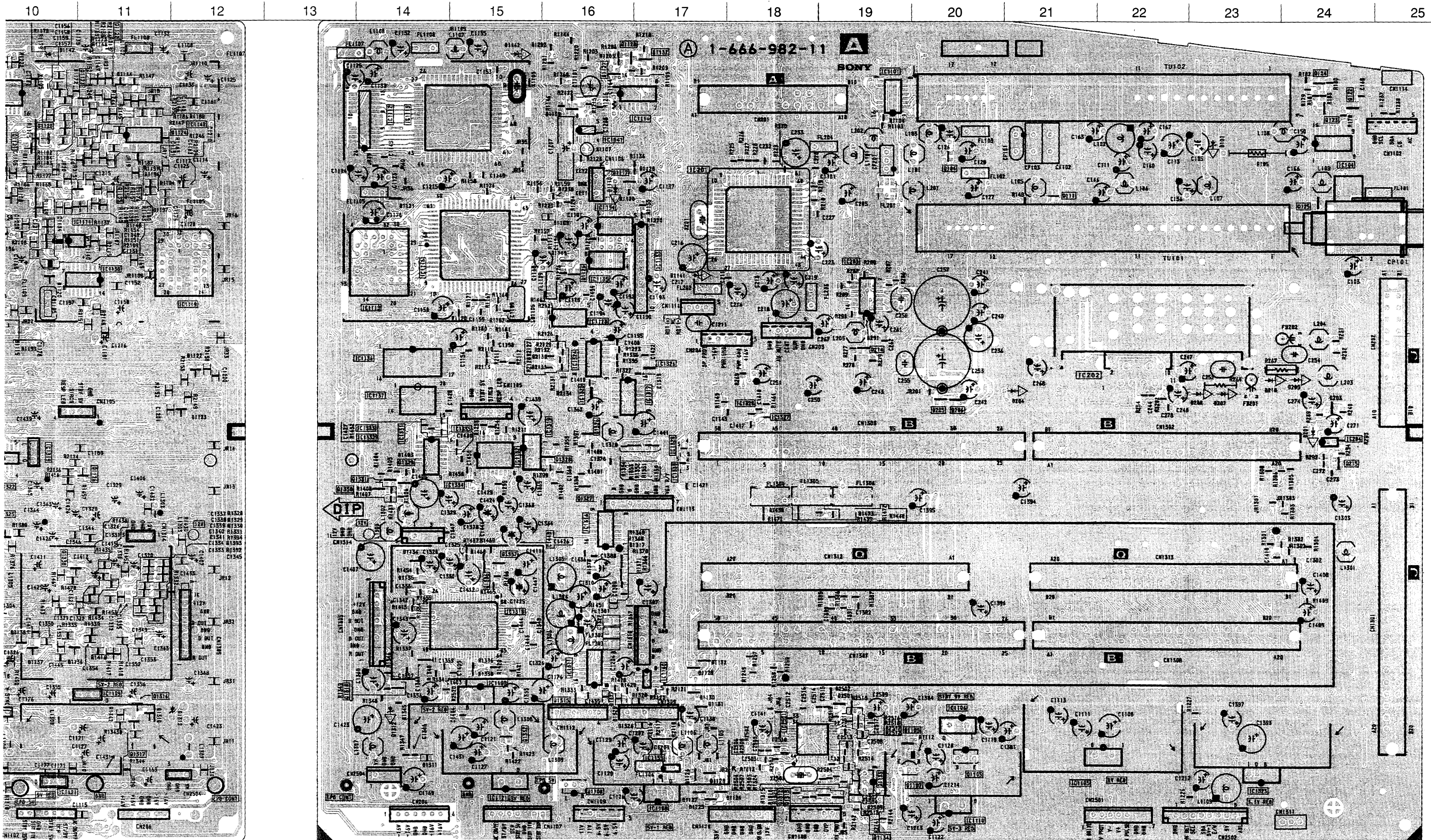
AUDIO PROCESSOR, AUDIO OUT
FM DETECTOR, D/A CONVERTER
SUB TUNER SYSTEM RESET

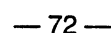
A Board < Conductor Side >

A Board < Component Side >

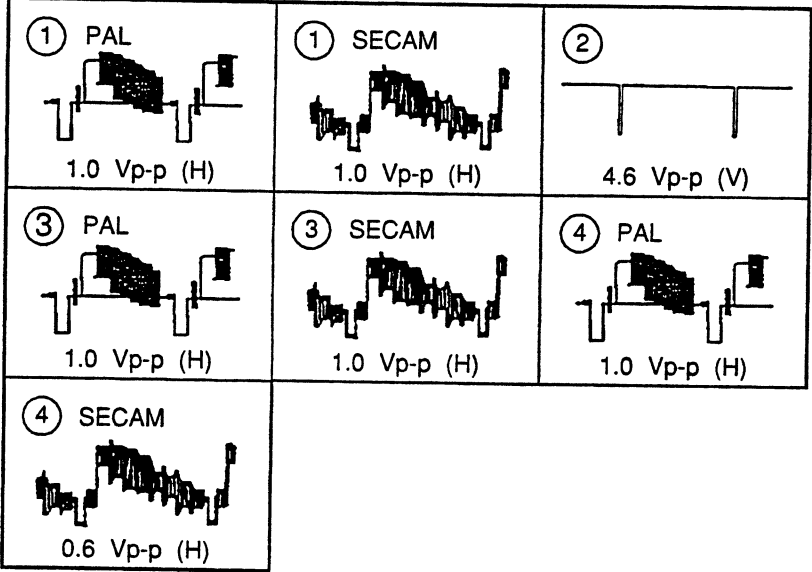


A Board < Component Side >





WAVEFORMS A BOARD (1/3)



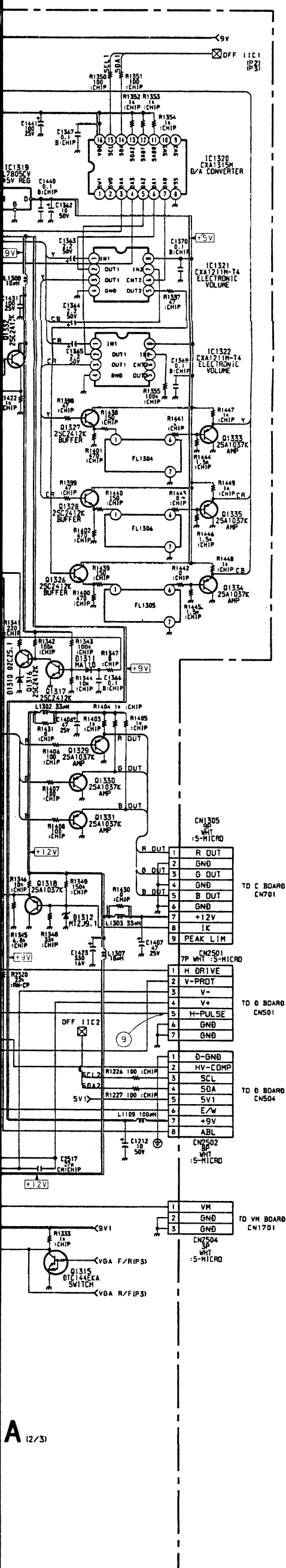
A (1/3) BOARD IC VOLTAGE TABLE

IC Voltage Table			IC Voltage Table		
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC101	1	3.0	IC203	1 - 3	4.8
	2	3.5		4	8.0
	3	1.7		5 - 10	4.8
	6	4.2		12 - 14	4.8
	7	4.7	IC1301	1 - 4	3.7
	8	2.3		2	0.8
	10	3.0		3	1.3
	11	2.8		5	4.5
	12	2.3		9 - 11	9.0
	13	4.6		12	4.4
	14	2.7		13 - 15	3.6
	5	2.4		16	9.0
IC201	7	1.5			
	8 - 9	3.0			
	11	4.8			
	23	1.4			
	24	1.5			
	25	0.1			
	26	4.8			
	28	3.6			
	29	2.5			
	30 - 31	3.6			
	42	3.6			
	44	7.0			
	46	7.0			
	47 - 48	3.6			
	57	0.1			
	59	0.1			
	61	4.7			
	65	4.8			
	67	4.8			

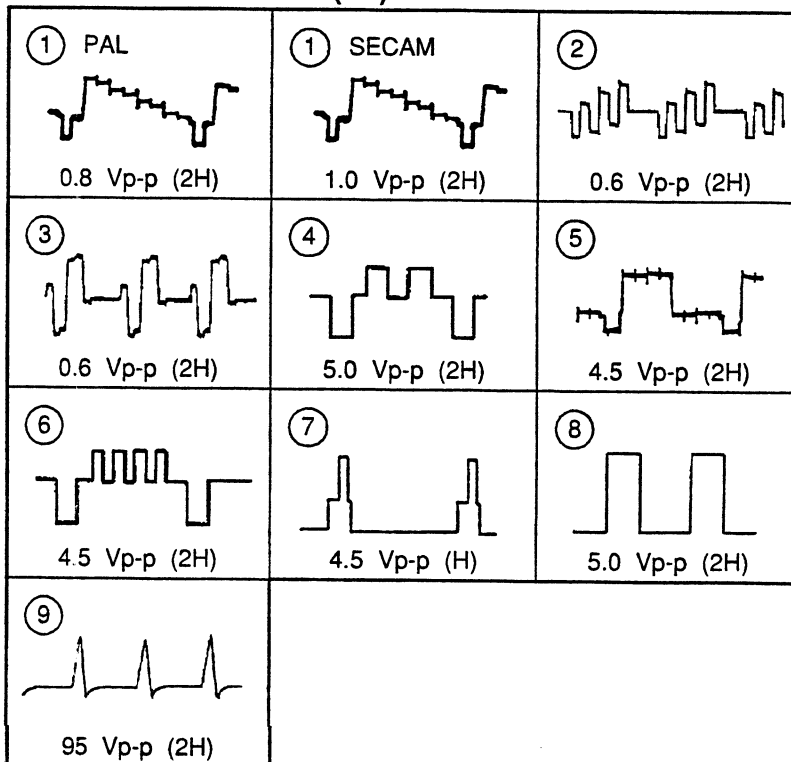
A (1/3) BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q101	1.7	3.7	1.0
Q102	4.6	-	-
Q103	0.3	4.7	-
Q105	1.0	-	1.7
Q108	1.7	3.7	1.0
Q109	1.7	-	2.3
Q110	4.6	-	-
Q112	0.3	4.8	-
Q113	1.0	-	1.7
Q114	4.2	4.6	4.7
Q115	3.5	4.7	2.8
Q116	-	4.7	-
Q117	-	4.7	-
Q118	4.0	-	-
Q119	4.8	-	-
Q120	0.6	4.4	-
Q121	4.3	9.0	3.7
Q122	4.0	-	-
Q123	8.2	1.9	9.0
Q124	1.7	8.2	1.1
Q125	1.7	8.3	1.1
Q126	1.7	8.3	1.1
Q201	3.0	8.0	2.5
Q202	8.2	4.0	8.0
Q203	4.2	8.0	3.6
Q204	3.6	-	-
Q205	-	4.7	-
Q206	-	4.7	-
Q209	0.1	4.0	-
Q210	4.7	0.1	4.7
Q211	-	0.6	-
Q212	0.6	-	-
Q214	5.5	9.0	4.8





WAVEFORMS A BOARD (2/3)

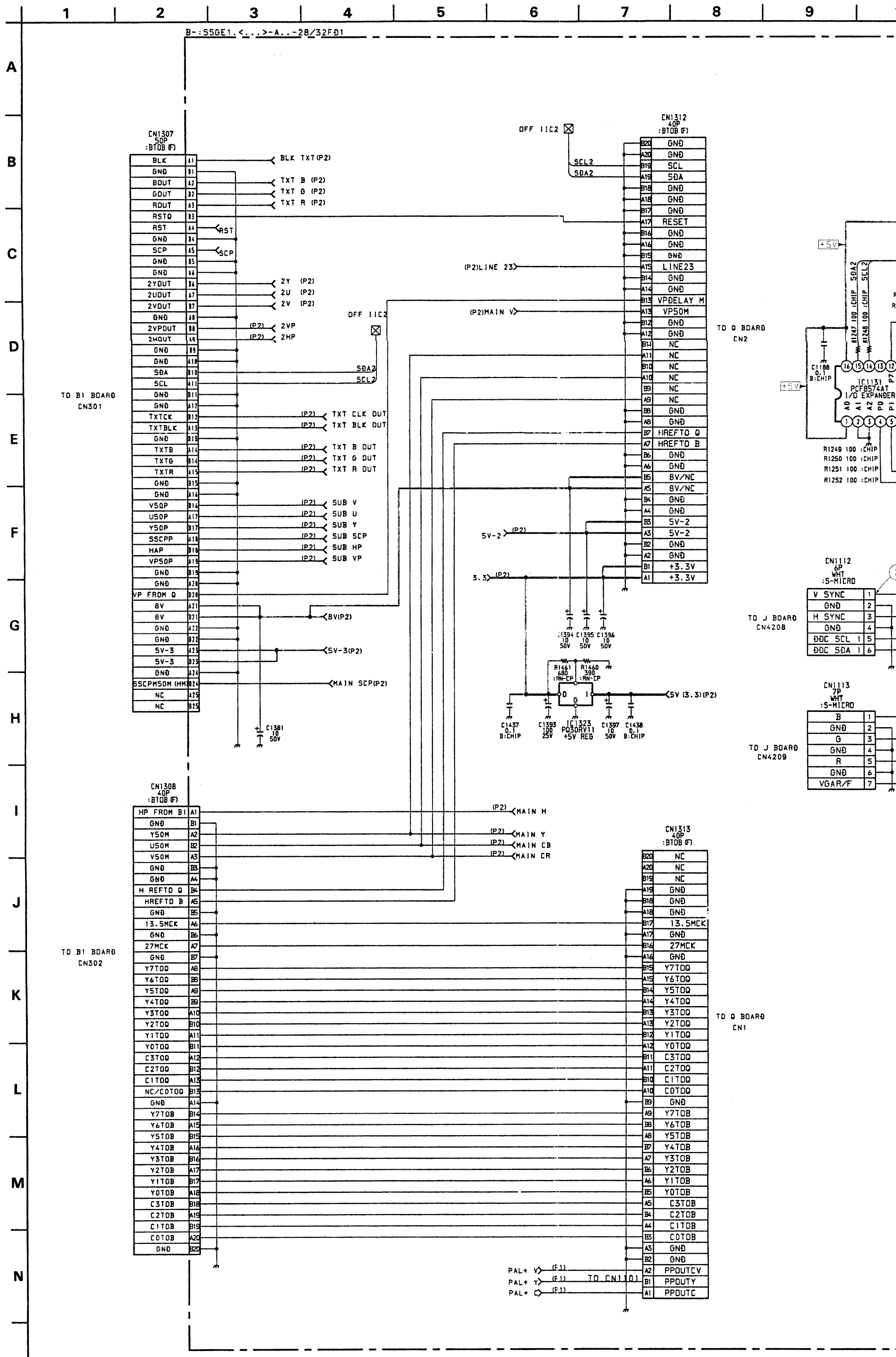


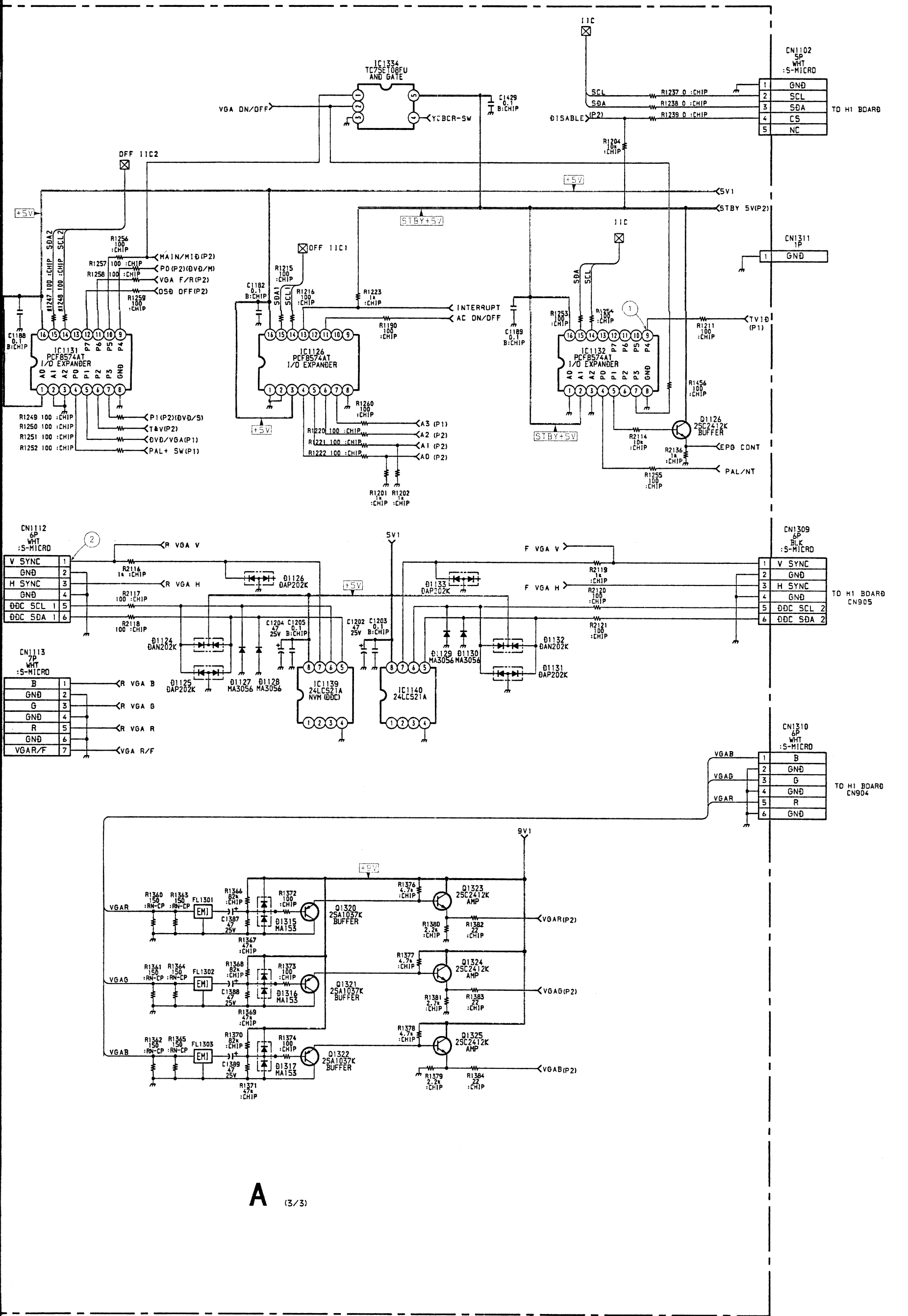
A (2/3) BOARD IC VOLTAGE TABLE

IC Voltage Table			IC Voltage Table			IC Voltage Table		
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC1116	5	3.0	IC1318	1 - 2	2.4	IC1321	1	2.7
	6	3.5		3 - 5	2.9		2	5.6
	18	1.7		6	9.0		3	2.1
	19 - 20	4.2		7	2.4		5	1.6
	21	4.7		8	2.5		6	5.6
	22	2.3		9 - 11	2.9		7	2.7
	24	3.0		13 - 14	2.4		8	5.0
	27	2.8		15 - 17	2.9		IC1322	1
	28	2.3		18	3.1	2		5.6
	30	4.6		19 - 20	2.4	3		2.1
	31	2.7		21 - 23	2.9	5		1.5
	32	2.4		24	3.0	6		2.3
	36 - 38	1.5		25 - 26	4.6	7 -		1.5
	40	3.0		27	0.3	8		5.0
	41	4.8		28	0.4			
	42	1.4		29	0.9			
	43	1.5		30	9.0			
	44	0.1		31	0.7			
	47	4.8		32	0.1			
	48	3.6		35	2.7			
50 - 51	2.5	36	4.7					
53 - 54	3.6	37	2.4					
IC1119	3	0.4	38	4.3				
	4	4.0	39	2.6				
	5	1.4	40	4.0				
	6	3.0	41	5.0				
	7 - 8	2.0	43	8.0				
	9 - 10	2.3	44 - 45	2.0				
	11	2.5	47 - 48	4.8				
	12	2.3	50 - 52	8.5				
	13 - 14	2.0	54 - 55	3.5				
	15	2.2	56	3.7				
	17	2.0	58	3.7				
	18 - 19	2.7	59	5.0				
	20 - 21	2.5	62 - 65	4.8				
	22	2.4	66	4.4				
	23	2.3	67 - 68	4.8				
	25	2.3	69	5.0				
	26	3.1	71	2.7				
	27	1.5	72	9.0				
	28	4.0	73 - 74	2.4				
	29	1.5	75	3.2				
30	2.4	76 - 78	4.6					
31	0.1	79 - 80	0.1					
IC1131	32	4.7	IC1320	4	4.5			
	1	5.0		5 - 7	5.6			
	6 - 7	5.0		9 - 10	2.4			
	9	5.0		11	8.6			
	12	4.6		12 - 13	4.6			
	13	0.2		14 - 15	3.8			
	14	3.0		16	9.0			
	15	3.8						
	16	5.0						

A (2/3) BOARD TRANSISTOR VOLTAGE TABLE

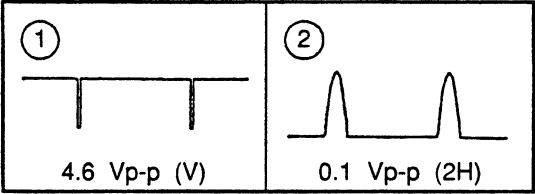
Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q1105	10.2	10.6	10.9
Q1106	3.8	-	-
Q1107	34.4	35.0	35.0
Q1108	4.7	5.0	5.4
Q1110	3.8	0.1	-
Q1111	-	4.5	-
Q1112	4.7	4.7	4.5
Q1113	4.3	-	4.7
Q1116	2.3	4.3	4.0
Q1120	0.1	-	-
Q1121	4.6	-	-
Q1122	-	-	0.6
Q1123	-	-	0.6
Q1124	-	-	0.6
Q1127	4.3	4.0	4.0
Q1128	3.2	3.8	3.2
Q1129	4.0	4.0	1.4
Q1130	4.0	4.0	3.0
Q1131	4.0	4.0	3.8
Q1132	4.0	3.2	-
Q1133	9.0	8.3	9.0
Q1301	-	9.0	-
Q1315	-	9.0	-
Q1316	-	8.0	-
Q1317	0.5	-	-
Q1318	6.2	-	4.0
Q1326	1.6	5.0	1.0
Q1327	2.1	5.0	1.5
Q1328	2.1	5.0	1.5
Q1329	2.6	-	3.2
Q1330	2.4	-	3.1
Q1331	2.6	-	3.2
Q1333	1.4	-	3.0
Q1334	0.9	-	1.5
Q1335	1.4	-	2.0
Q1398	4.5	9.0	4.0





A (3/3)

WAVEFORMS A BOARD (3/3)



TO H1 BOARD

A (3/3) BOARD
IC VOLTAGE TABLE

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC1111	1	4.5
	2	1.1
	3	4.6
	5	5.0
	6	0.1
	7 - 8	2.3
IC1126	3	4.6
	5	0.1
	7	0.1
	9 - 10	5.0
	11	5.3
	12 - 13	4.8
	14 - 15	3.0
IC1138	16	5.0
	1 - 2	0.5
	3 - 4	3.4
	5	5.0
	6	0.7
	11	2.5
	12	5.0
IC1142	13	0.5
	14	5.0
	3 - 5	4.5
IC1142	8	4.5
	12 - 14	2.0

TO H1 BOARD
CN905

TO H1 BOARD
CN904

A (3/3) BOARD
TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q1126	4.4	4.7	3.8
Q1320	3.4	-	4.0
Q1321	3.4	-	4.0
Q1322	3.4	-	4.0
Q1323	4.0	9.0	3.4
Q1324	4.0	9.0	3.4
Q1325	4.0	9.0	3.4

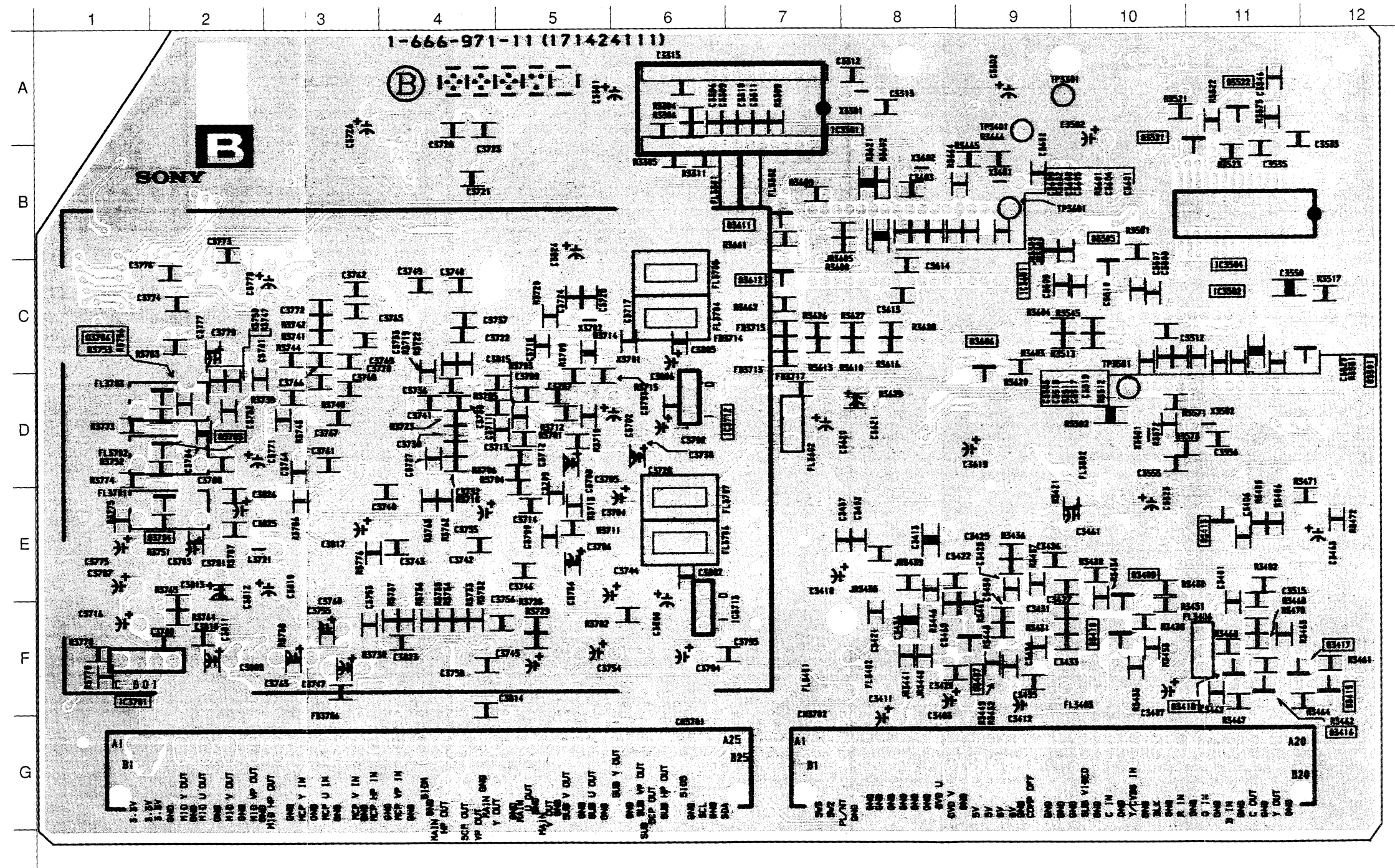
B

DIGITAL COMB FILTER, MAIN COLOR DECODER,
SUB COLOR DECODER, ID ENCODER,
ARTIFICIAL INTELLIGENCE SCAN CONVERTER,
A/D CONVERTER

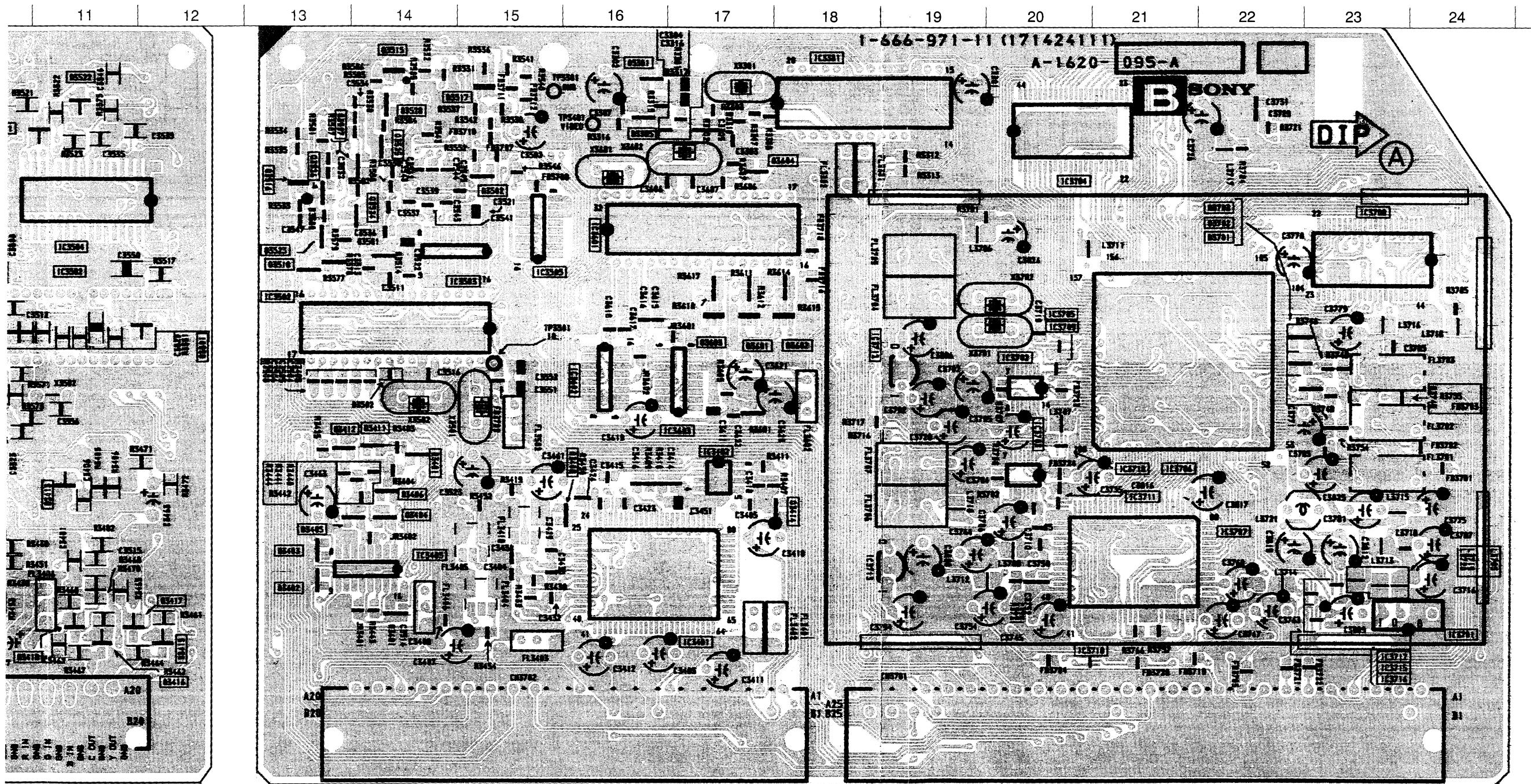
B BOARD

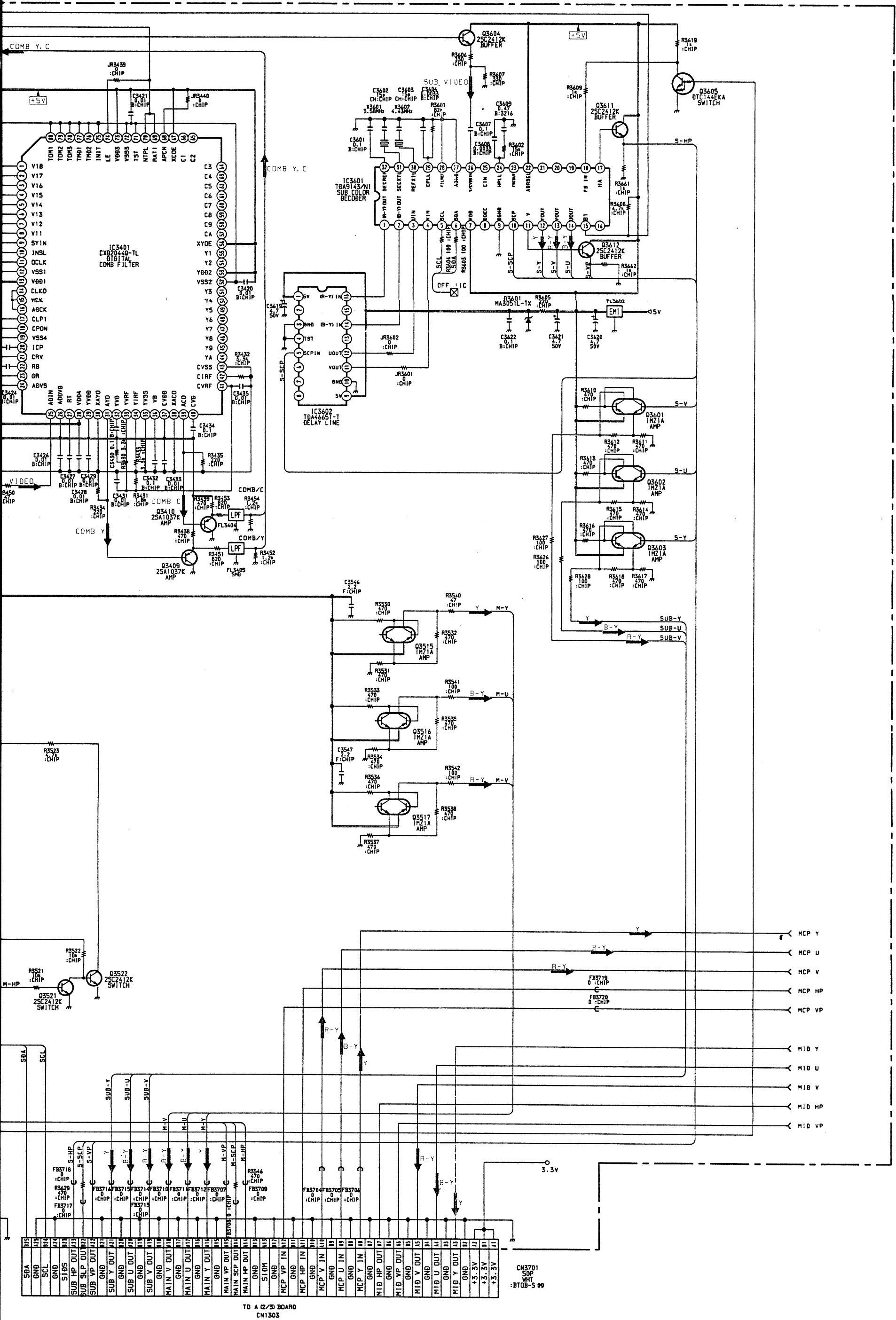
IC		Q3411	D-14
IC3301	A-18	Q3412	D-14
IC3401	F-16	Q3414	E-18
IC3402	E-17	Q3416	F-11
IC3502	C-11	Q3417	F-12
IC3503	C-15	Q3418	G-11
IC3601	C-9	Q3502	B-15
IC3602	D-16	Q3515	A-14
IC3702	D-20	Q3516	B-13
IC3703	D-20	Q3517	A-15
IC3704	B-20	Q3521	B-11
IC3705	C-20	Q3522	F-13
IC3706	E-21	Q3523	F-13
IC3707	F-22	Q3524	B-13
IC3708	C-23	Q3525	C-13
IC3709	C-20	Q3526	C-13
IC3710	E-21	Q3527	B-14
IC3711	F-21	Q3528	A-14
IC3712	D-7	Q3601	D-17
IC3713	F-6	Q3602	D-18
IC3715	F-23	Q3603	D-17
IC3716	F-23	Q3604	B-17
IC3717	F-23	Q3611	B-7
IC3718	F20	Q3612	C-7
TRANSISTOR		Q3701	D-22
Q3301	A-16	Q3702	D-22
Q3402	F-13	Q3703	D-22
Q3403	F-13	Q3704	E-2
Q3404	E-14	Q3705	D-2
Q3405	E-13	Q3706	C-1
Q3406	E-14		
Q3408	E-16		
Q3409	E-10		
Q3410	F-9		

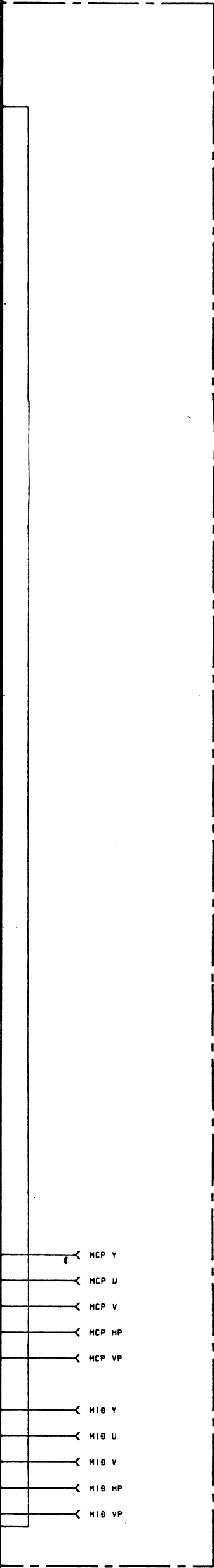
B Board < Conductor Side >



B Board < Component Side >







B BOARD IC VOLTAGE TABLE

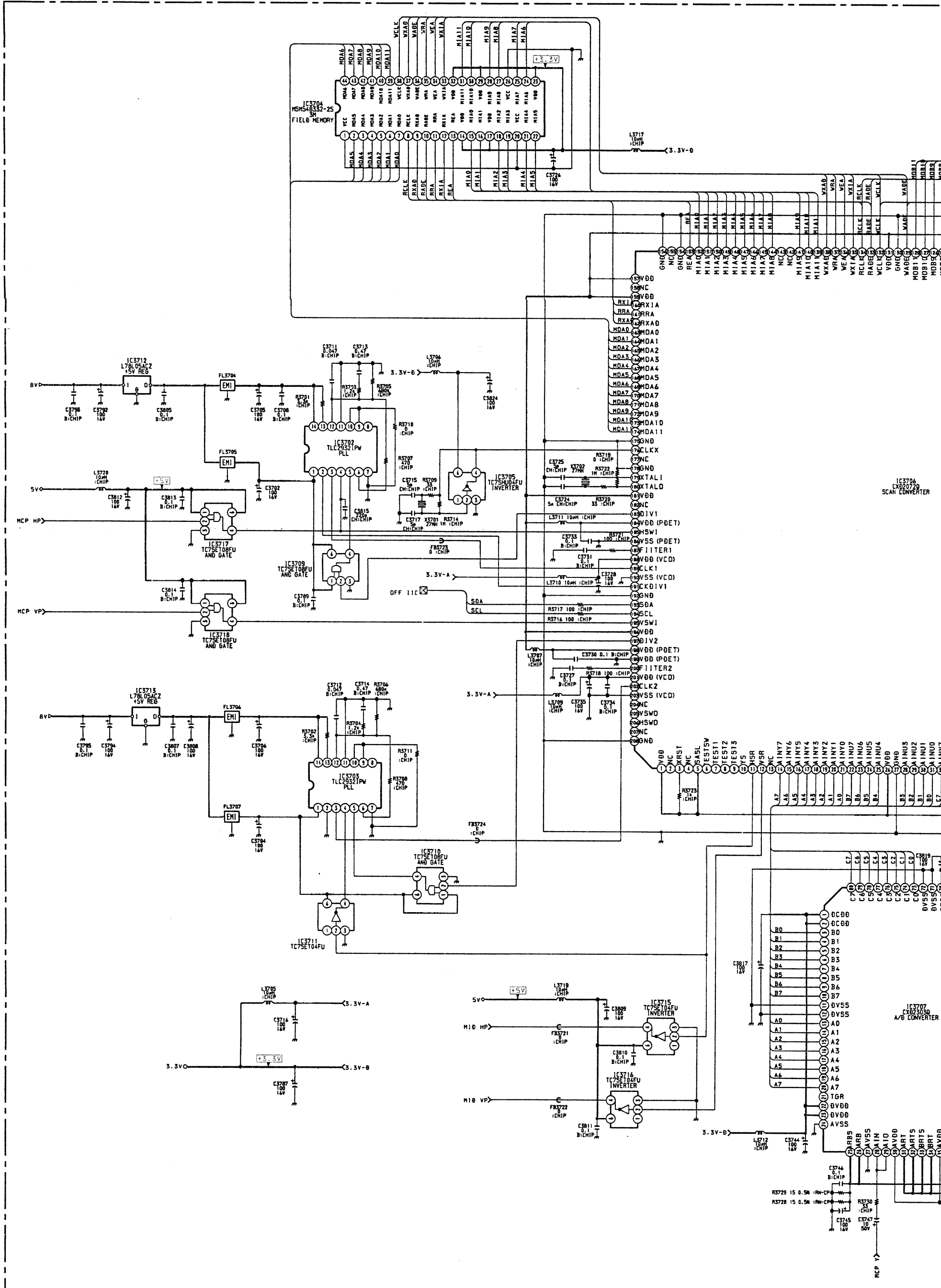
IC Voltage Table			IC Voltage Table		
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC3301	1	5.0	IC3503	1	5.0
	2	1.1		5	0.1
	4	0.8		9	5.0
	5	0.3		11 - 12	2.9
	6	2.5		14	1.4
	7	2.4		16	1.4
	8	1.4	IC3504	5	1.5
	9	4.8		6	4.0
	10	1.7		7	1.5
	11	0.1		9	9.0
	15 - 16	3.7		10	0.6
	18 - 20	4.8		12	1.7
IC3402	21 - 22	2.4		14	0.7
	1	2.5		15	1.7
	2	2.0		16	0.5
	4 - 5	3.0	IC3601	1	
IC3403	6	5.0		2	
	7	3.4		3	
	1	0.1		4	
	3	1.8		5 - 6	
	5	0.1		7 - 8	
	9 - 10	8.0		10	
	11	0.6		12	
	12	0.1		13 - 14	
IC3502	14 - 15	0.1		15	
	16	9.0		16	
	1 - 2	2.0		17	
	3 - 4	2.4		18	
	5	2.8		19	
	6	4.0		20	
	7	4.9		21	
	12	3.2		22	
	13 - 14	2.6		23	
	15	8.0		24	
	16	2.5		26	
	17	0.3		28	
	19	0.1		29	
	20	3.2		30	
	21	0.3		31	
	22	3.2	IC3602	1	5.0
	23	4.1		5	0.6
	24	3.9		9	5.0
	26	3.6		11 - 12	2.9
	28	3.7		14	1.4
	29	4.7		16	1.4
	30	2.5			
	31	2.6			

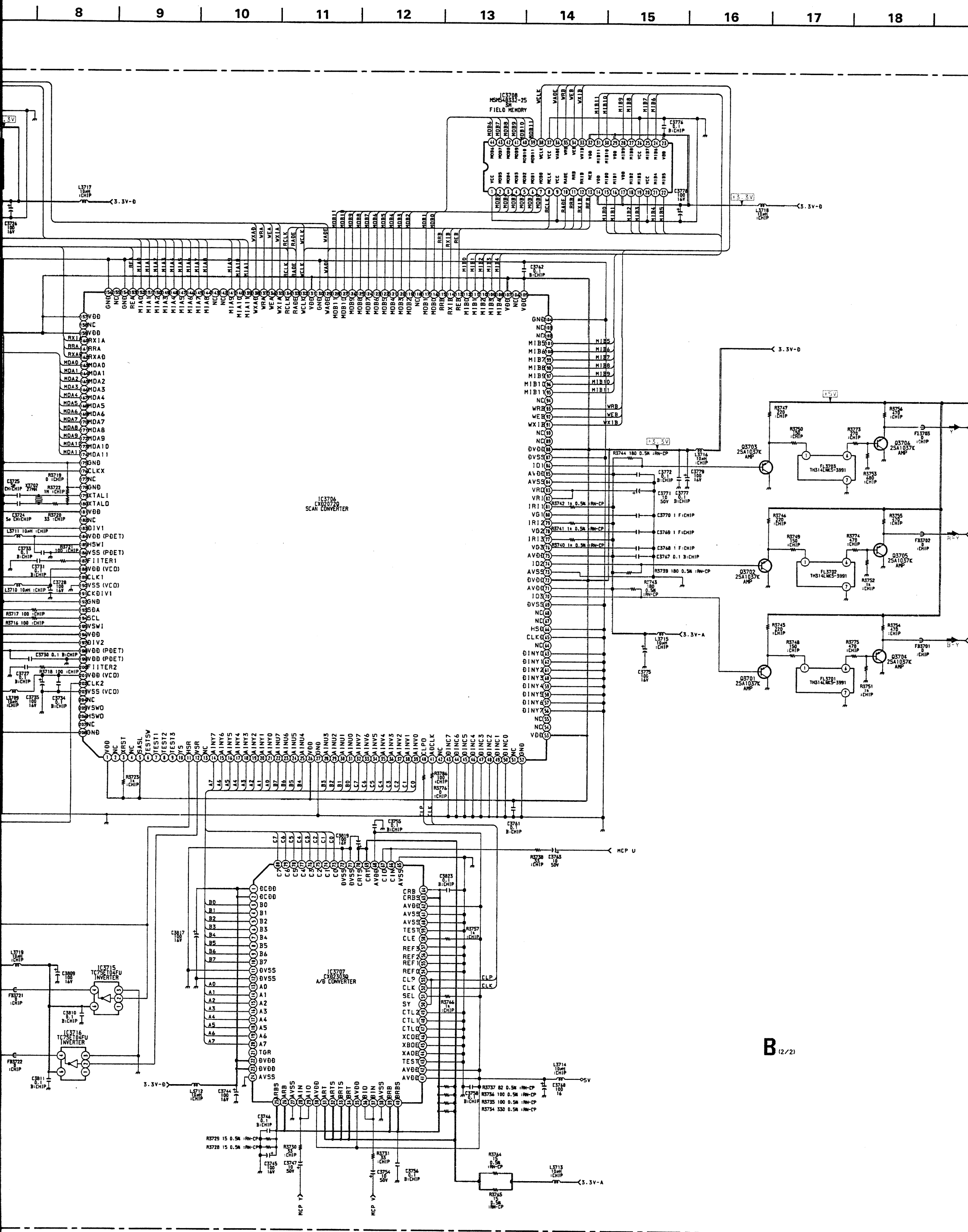
B (1/2) BOARD
TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q3301	2.4	4.8	1.8
Q3305	3.0	4.8	2.4
Q3401	1.5	-	-
Q3402	-	-	0.6
Q3403	0.8	-	1.4
Q3404	1.7	-	0.2
Q3405	1.5	-	0.1
Q3406	1.3	-	0.2
Q3407	-2.1	3.1	-
Q3408	2.7	-	2.1
Q3409	0.8	-	1.4
Q3410	-	-	1.5
Q3411	3.7	8.0	3.1
Q3412	3.7	8.0	3.0
Q3413	4.0	-	0.1
Q3414	4.6	4.8	4.1
Q3415	7.2	3.6	8.0
Q3416	7.2	3.6	8.0
Q3417	2.4	7.2	2.0
Q3418	2.1	7.2	2.0
Q3501	0.3	8.0	0.3
Q3502	-	8.0	0.3
Q3516	3.2	8.0	2.6
Q3523	2.6	-	3.2
Q3525	3.2	-	5.8
Q3528	3.8	-	3.2
Q3604	3.7	8.0	2.8
Q3605	-	8.0	-
Q3611	0.3	8.0	0.3
Q3612	-	8.0	-

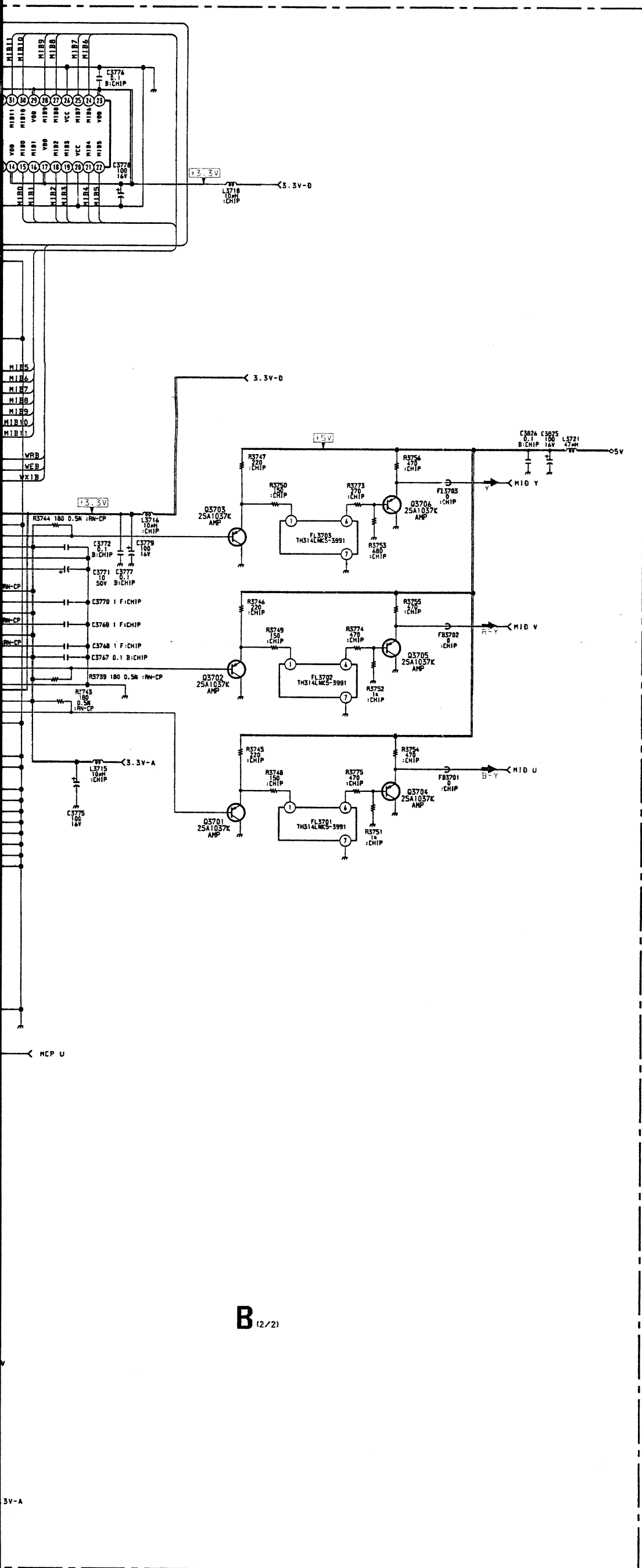
A
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B-SSGE1.<...>-B.-28/32F01





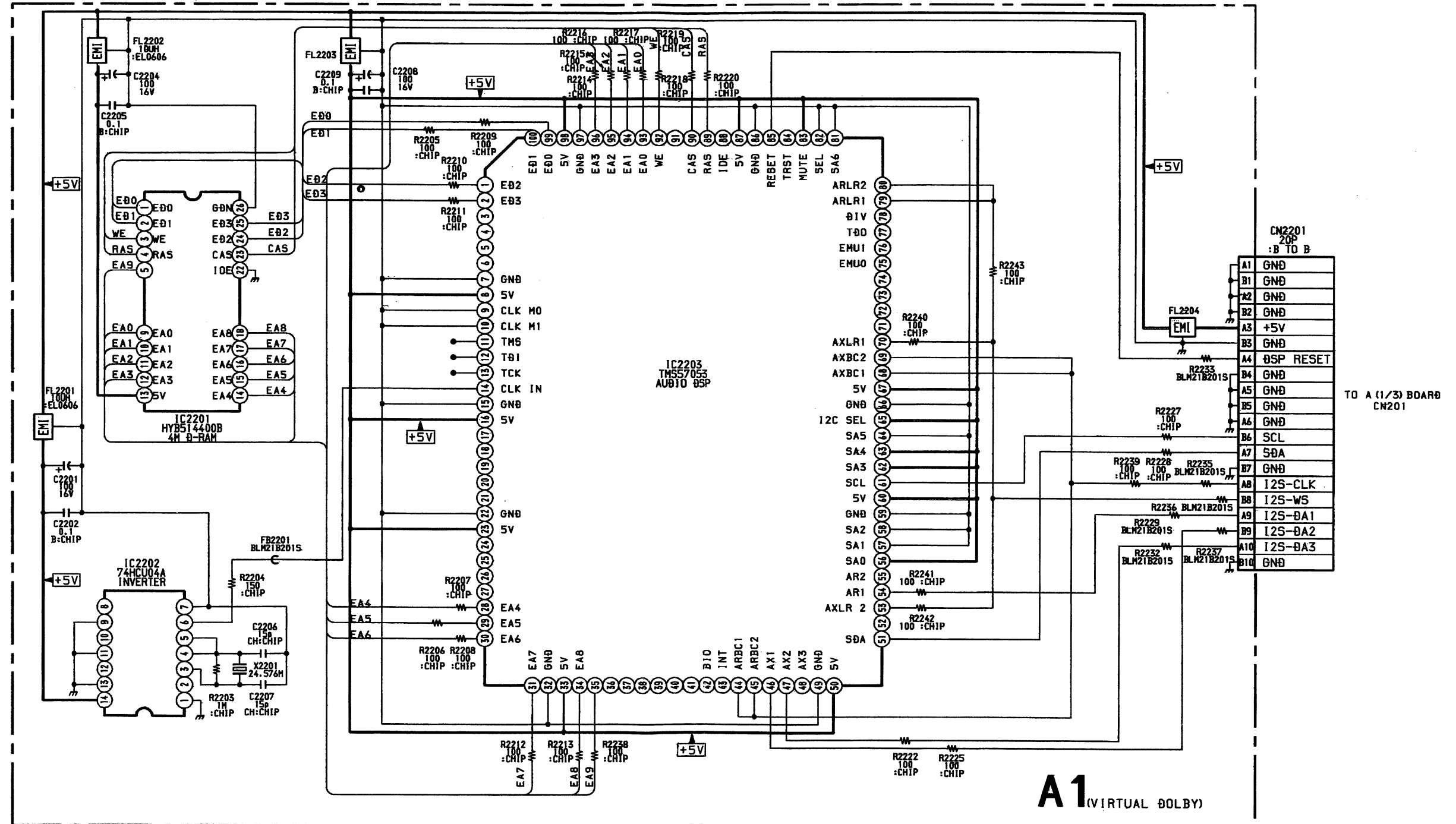
B (2/2)



**B (2/2) BOARD
TRANSISTOR VOLTAGE TABLE**

Ref No	B Base	C Collector	E Emitter
Q3701	1.3	-	1.6
Q3702	1.1	-	1.6
Q3703	1.6	-	2.3
Q3704	2.0	-	2.5
Q3705	1.8	-	2.4
Q3706	1.4	-	2.1

B-:SSGE1.<...>-A1.-28/32F01

**A1** (VIRTUAL DOLBY)

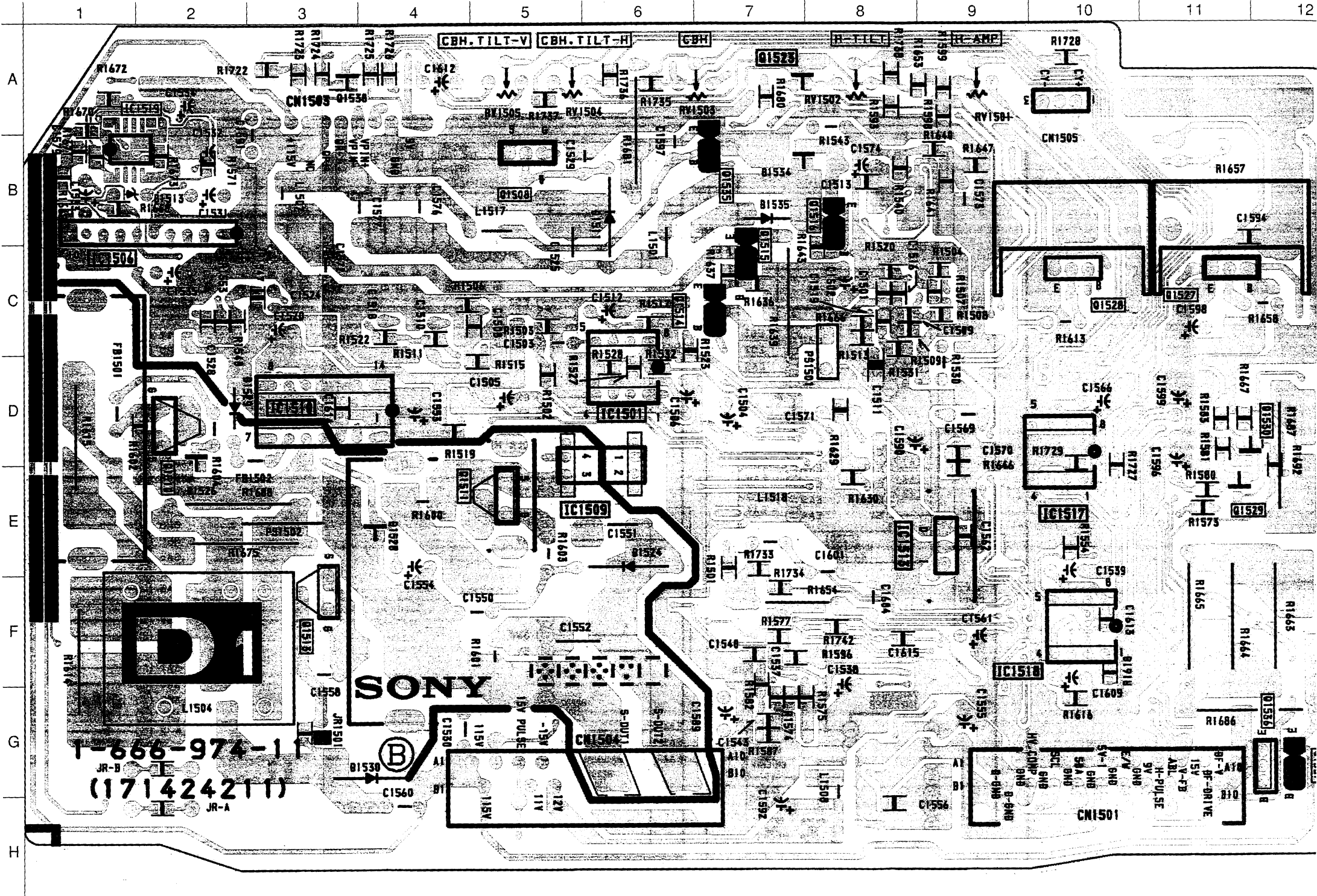
D1

DF AMP, S CONT DRIVER
PIN CONTROLLER, V-PIN CONTROLLER
A/D CONVERTER, C Y CONTROLLER

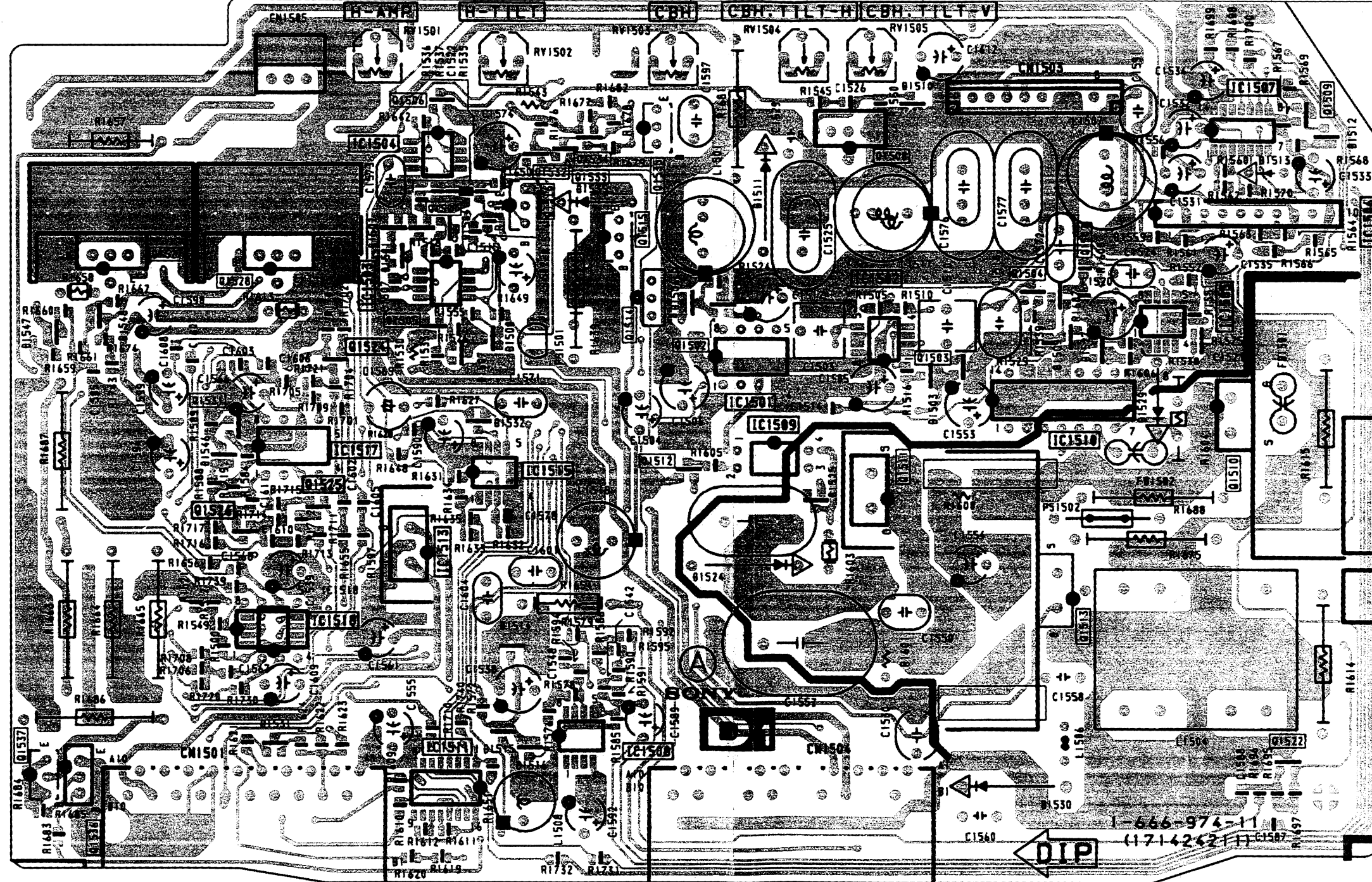
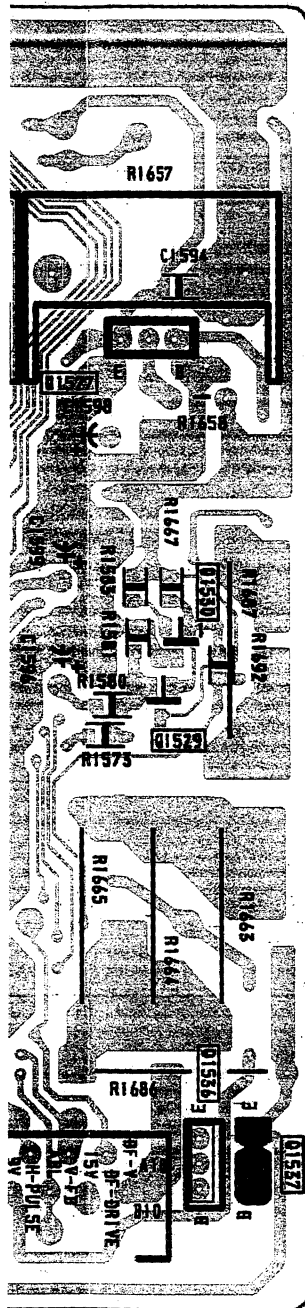
D1 BOARD

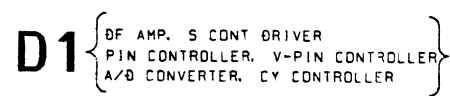
IC		DIODE	
IC1501	D-6	D1502	C-16
IC1502	C-20	D1503	D-21
IC1503	C-16	D1504	C-17
IC1504	B-16	D1506	C-18
IC1505	C-23	D1509	D-22
IC1506	B-1	D1510	B-21
IC1507	B-23	D1511	B-6
IC1508	B-5	D1512	B-24
IC1509	E-19	D1513	B-1
IC1510	D-3	D1514	F-17
IC1511	H-17	D1515	G-17
IC1513	F-16	D1516	G-17
IC1515	E-17	D1524	F-6
IC1517	E-10	D1525	E-20
IC1518	F-10	D1526	E-2
TRANSISTOR		D1527	D-22
Q1501	B-16	D1528	C-15
Q1502	C-19	D1529	D-23
Q1503	D-21	D1530	H-4
Q1504	C-22	D1531	G-15
Q1505	C-16	D1532	D-17
Q1506	B-16	D1534	B-7
Q1507	C-22	D1535	B-7
Q1508	B-5	D1543	D-13
Q1509	B-24	D1544	D-15
Q1510	D-2	D1545	D-15
Q1511	E-5	D1546	D-14
Q1512	E-19	D1547	D-13
Q1513	F-3	D1548	D-14
Q1514	C-7		
Q1515	C-7		
Q1516	B-8		
Q1522	E-24		
Q1523	A-8		
Q1524	D-16		
Q1525	E-15		
Q1526	E-15		
Q1527	C-11		
Q1528	C-10		
Q1529	E-11		
Q1530	D-12		
Q1531	D-14		

D1 Board < Conductor Side >



11	12	13	14	15	16	17	18	19	20	21	22	23	24
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D1 BOARD IC VOLTAGE TABLE

IC Voltage Table			IC Voltage Table		
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC1501	1	6.1	IC1506	2	2.0
	3	12.3		3	2.7
	5 - 6	6.1		4	2.5
	8	5.4		6	2.9
IC1502	1	11.0	IC1508	7	2.3
	2	1.2		8	3.0
	3	2.1		10	9.0
	5 - 7	0.7		2 - 3	0.7
IC1503	8	12.0	IC1510	5	2.5
	1	5.0		6	1.3
	2	7.5		7	10.0
	3	6.4		8	12.0
IC1504	5	6.8	IC1515	3	12.3
	6	6.1		5	21.5
	8	12.0		6	33.1
	1	7.6		7	15.2
IC1505	2	6.0	IC1517	9	12.3
	3	6.1		10	4.1
	5	6.6		1	7.3
	6	7.2		2 - 3	6.1
IC1505	7	0.4	IC1517	5 - 7	6.0
	8	12.0		8	12.3
	1	4.3		1	3.3
	2	0.8		3	9.0
IC1505	3	0.7		5 - 8	3.3
	5	6.8			
	6 - 7	6.1			
	8	12.0			

D1 BOARD
TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q1501	0.1	2.1	-
Q1502	5.5	-	6.1
Q1503	0.8	-	1.7
Q1504	11.1	0.8	11.6
Q1505	0.4	1.8	-
Q1506	0.4	6.3	-
Q1509	4.2	-	4.8
Q1512	3.8	0.1	-
Q1514	7.3	12.0	6.1
Q1515	0.8	1.2	7.4
Q1516	11.8	12.0	5.0
Q1522	4.8	-	-
Q1523	0.2	9.0	0.8
Q1524	-	1.2	-
Q1525	1.2	-	2.1
Q1526	2.1	9.0	1.5
Q1527	0.1	9.0	-
Q1528	-0.4	-16.0	-0.1
Q1529	5.4	9.0	4.8
Q1530	4.8	-	5.4
Q1531	2.6	-	3.2

TO VM BOARD
CN1702

TO D BOARD
CN511

D1 BOARD * MARK

	28FD1E	28FD1K	32FD1E	32FD1K
C1525	0.015MF	0.015MF	0.0047MF	0.0047MF
C1551	0.33MF	0.33MF	0.43MF	0.43MF
C1576	0.022MF	0.022MF	0.015MF	0.015MF
C1577	—	—	0.0047MF	0.0047MF
L1501	4.7MMH	4.7MMH	10MMH	10MMH
R1513	47K	47K	33K	33K
R1536	200K	200K	220K	220K
R1537	18K	18K	33K	33K
R1630	8.2K	8.2K	6.8K	6.8K
R1632	47K	47K	12K	12K
R1639	100	100	82	82
R1663	4.7K	4.7K	3.3K	3.3K
R1664	4.7K	4.7K	3.3K	3.3K
R1665	4.7K	4.7K	3.3K	3.3K
R1666	100K	100K	270K	270K

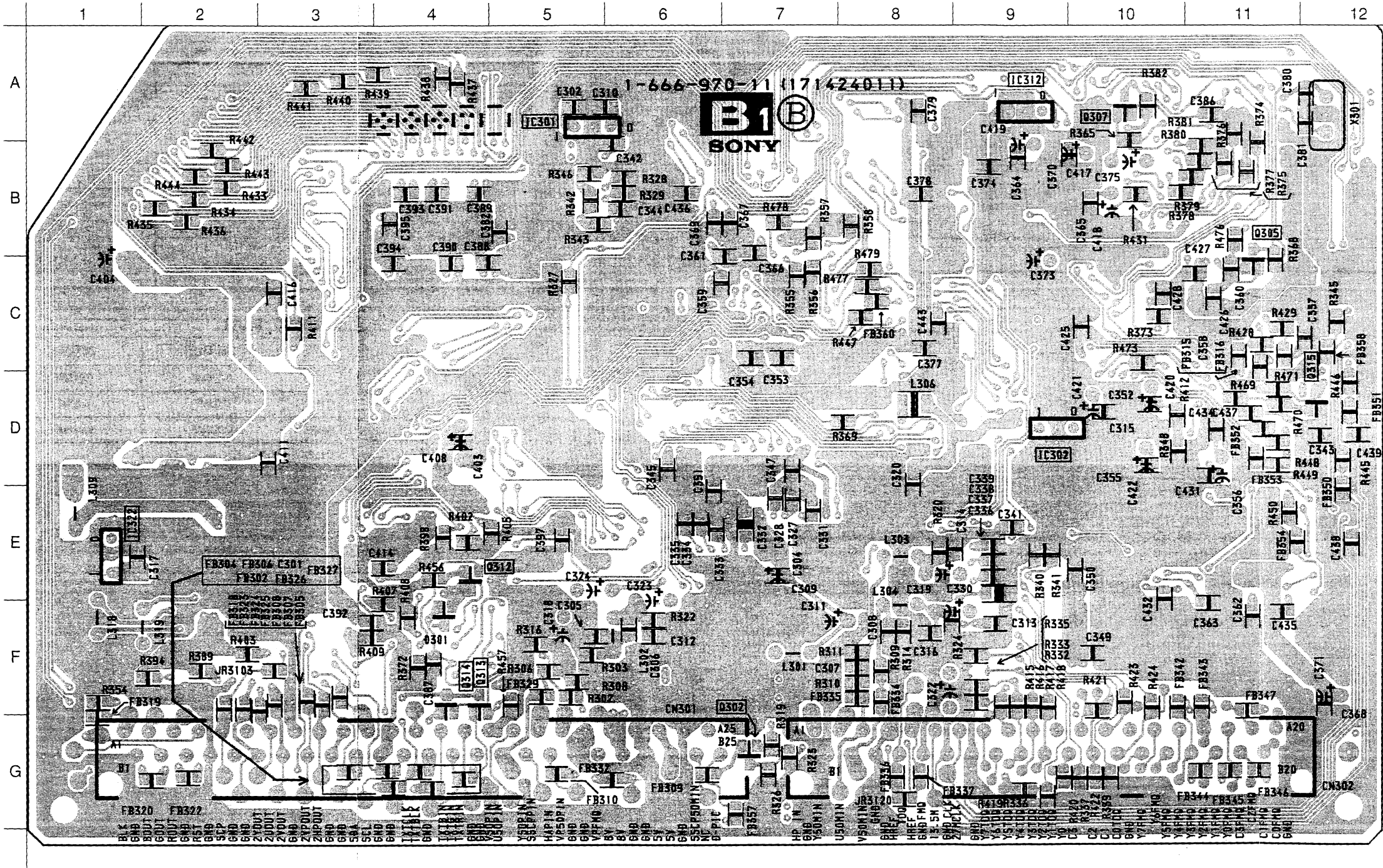
B1 BOARD

IC	
IC301	B-19
IC302	D-10
IC303	B-20
IC304	F-16
IC305	E-18
IC307	E-15
IC308	C-18
IC309	C-14
IC310	B-16
IC311	F-14
IC312	A-10
IC313	D-17
IC314	D-17
IC315	C-17
IC316	B-17
IC317	B-14
IC318	F-21
IC319	C-21
IC320	F-21
IC321	E-20
IC322	E-1
IC323	D-20
IC324	D-23
IC325	E-21
IC326	C-13
IC327	D-14
IC328	C-16
TRANSISTOR	
Q301	F-20
Q302	G-6
Q303	B-14
Q304	B-15
Q305	B-11
Q306	B-15
Q307	A-10
Q308	F-23
Q309	F-23
Q310	F-22
Q311	C-14
Q312	E-4
Q313	F-4
Q314	F-4
DIODE	
D301	F-4

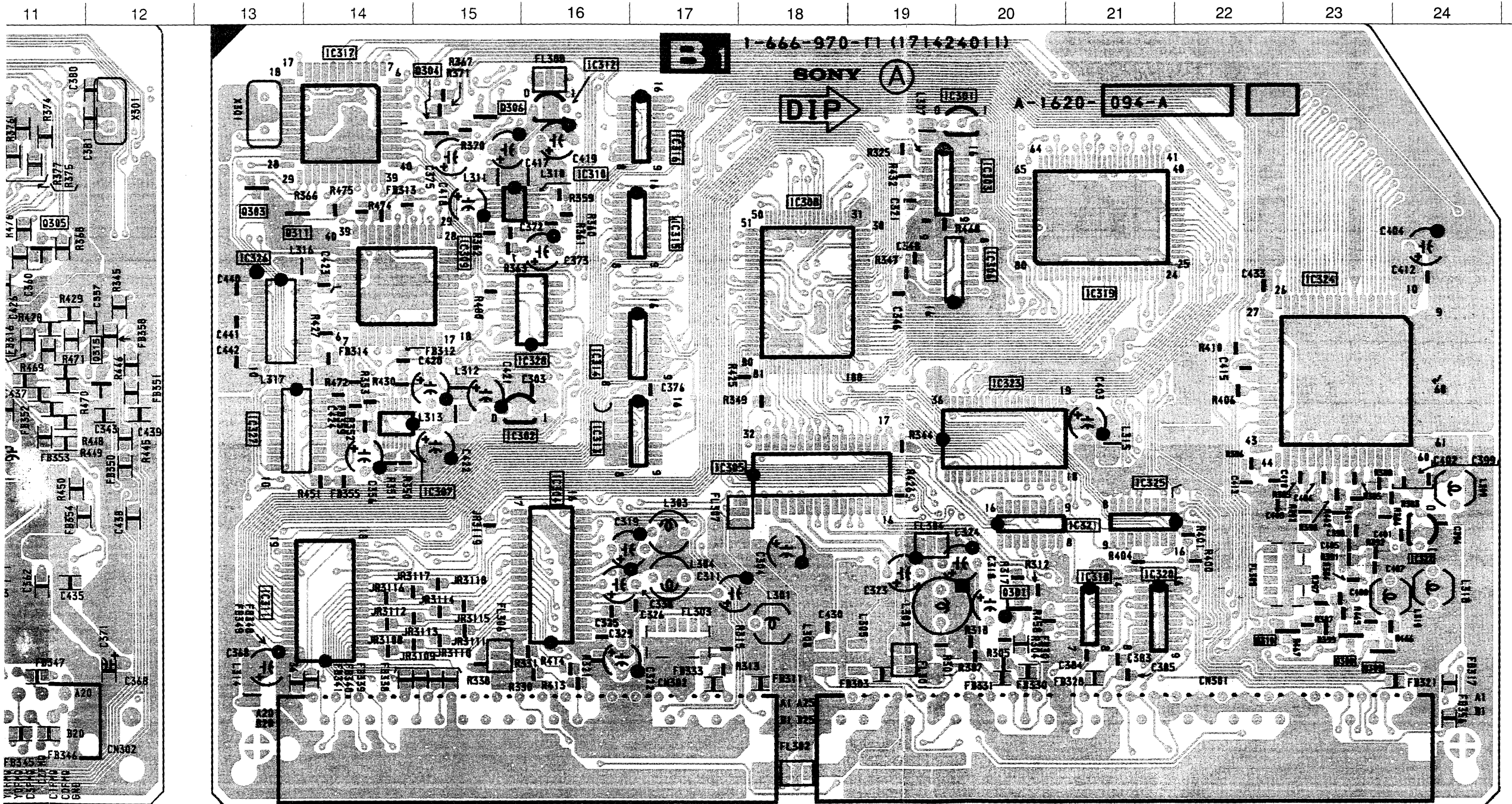
B1

A/D, D/A CONVERTER
DIGITAL NOISE REDUCER

B1 Board < Conductor Side >



B1 Board < Component Side >



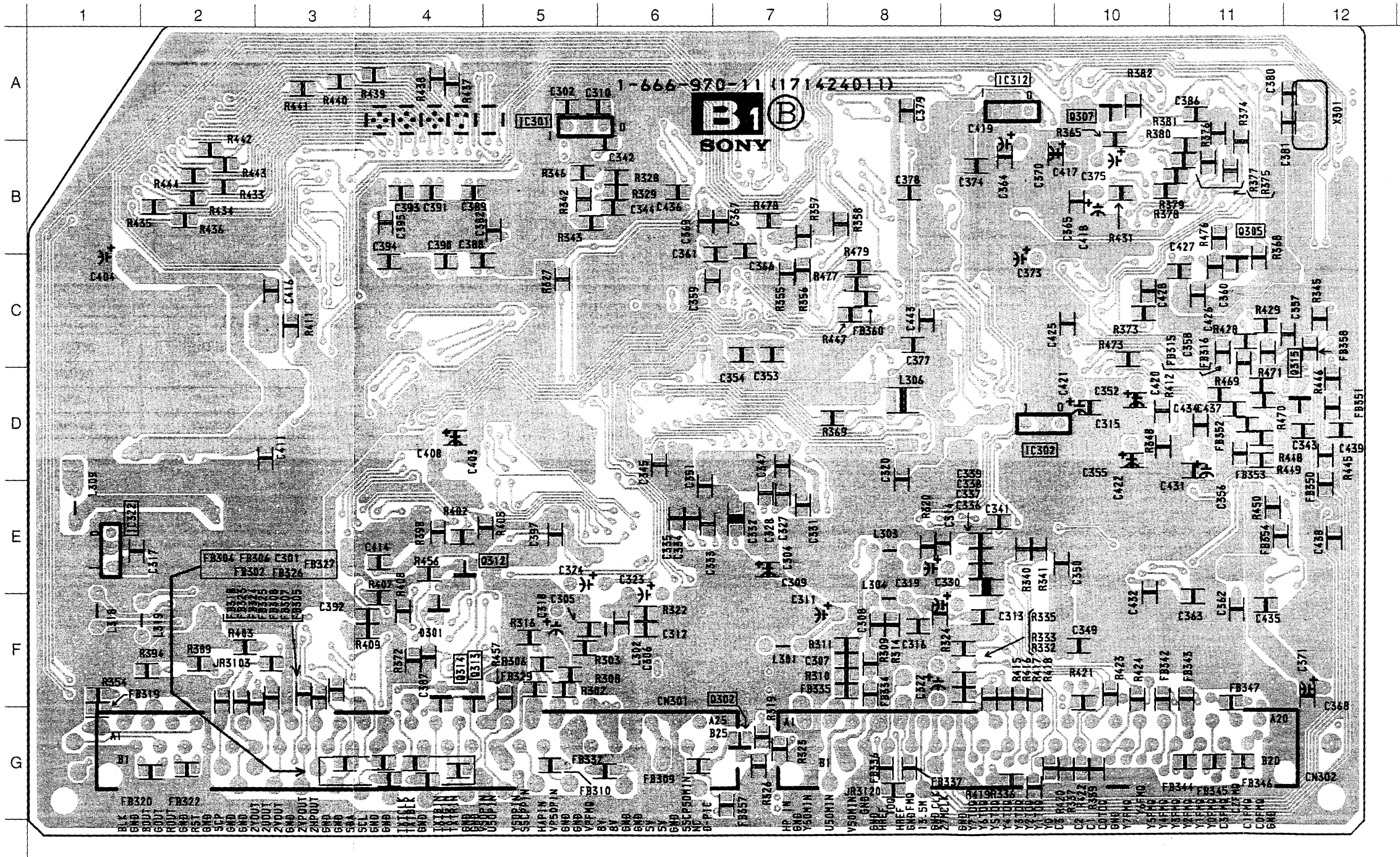
B1 BOARD

IC	
IC301	B-19
IC302	D-10
IC303	B-20
IC304	F-16
IC305	E-18
IC307	E-15
IC308	C-18
IC309	C-14
IC310	B-16
IC311	F-14
IC312	A-10
IC313	D-17
IC314	D-17
IC315	C-17
IC316	B-17
IC317	B-14
IC318	F-21
IC319	C-21
IC320	F-21
IC321	E-20
IC322	E-1
IC323	D-20
IC324	D-23
IC325	E-21
IC326	C-13
IC327	D-14
IC328	C-16
TRANSISTOR	
Q301	F-20
Q302	G-6
Q303	B-14
Q304	B-15
Q305	B-11
Q306	B-15
Q307	A-10
Q308	F-23
Q309	F-23
Q310	F-22
Q311	C-14
Q312	E-4
Q313	F-4
Q314	F-4
DIODE	
D301	F-4

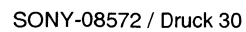
B1

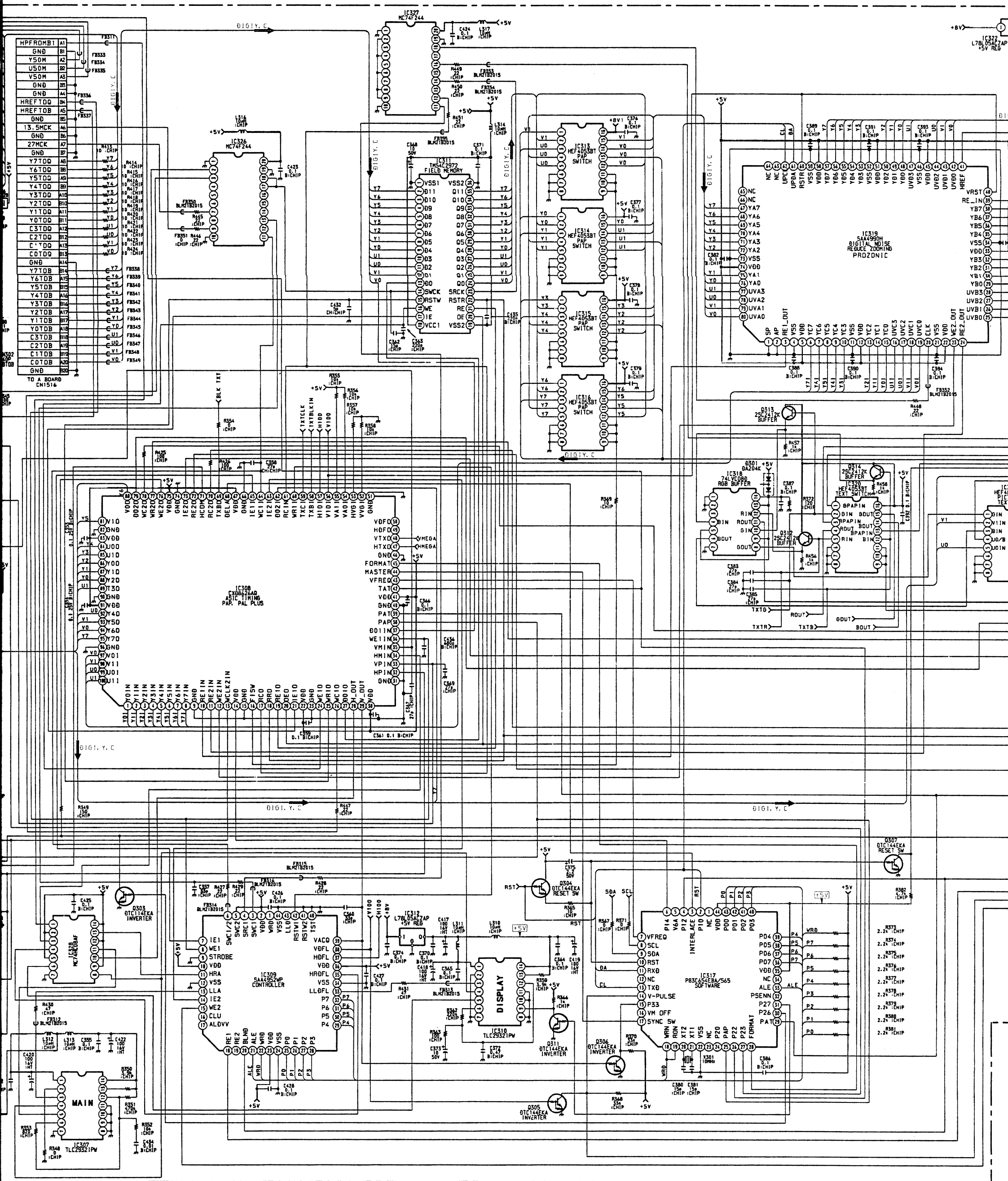
A/D, D/A CONVERTER
DIGITAL NOISE REDUCER

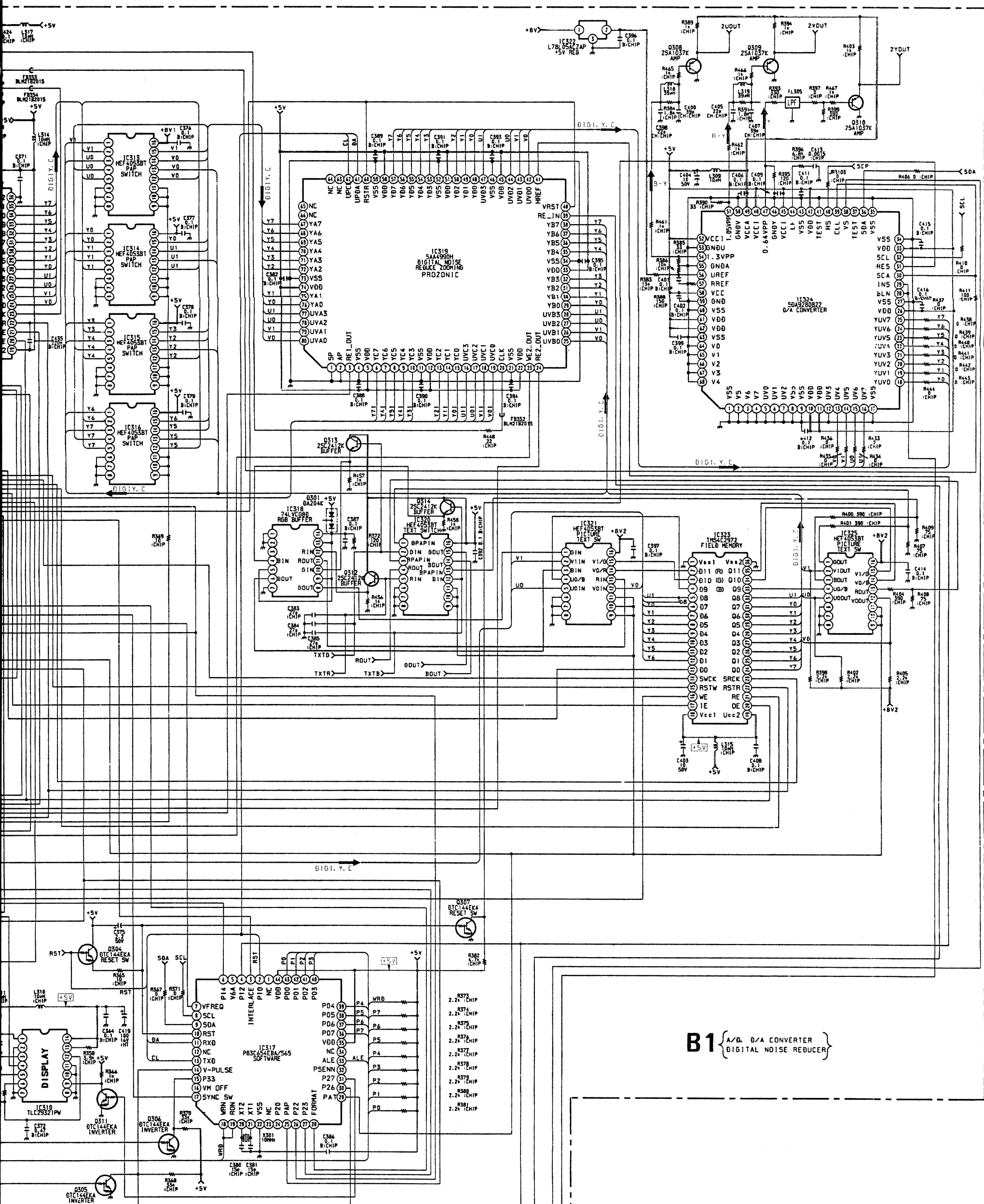
B1 Board < Conductor Side >

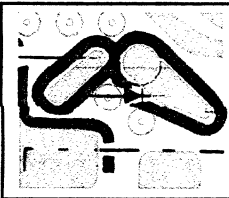


11	12	13	14	15	16	17	18	19	20	21	22	23	24
----	----	----	----	----	----	----	----	----	----	----	----	----	----









Note:

The circuit indicated
over 600 Vp-p. Can
electric shock in ins

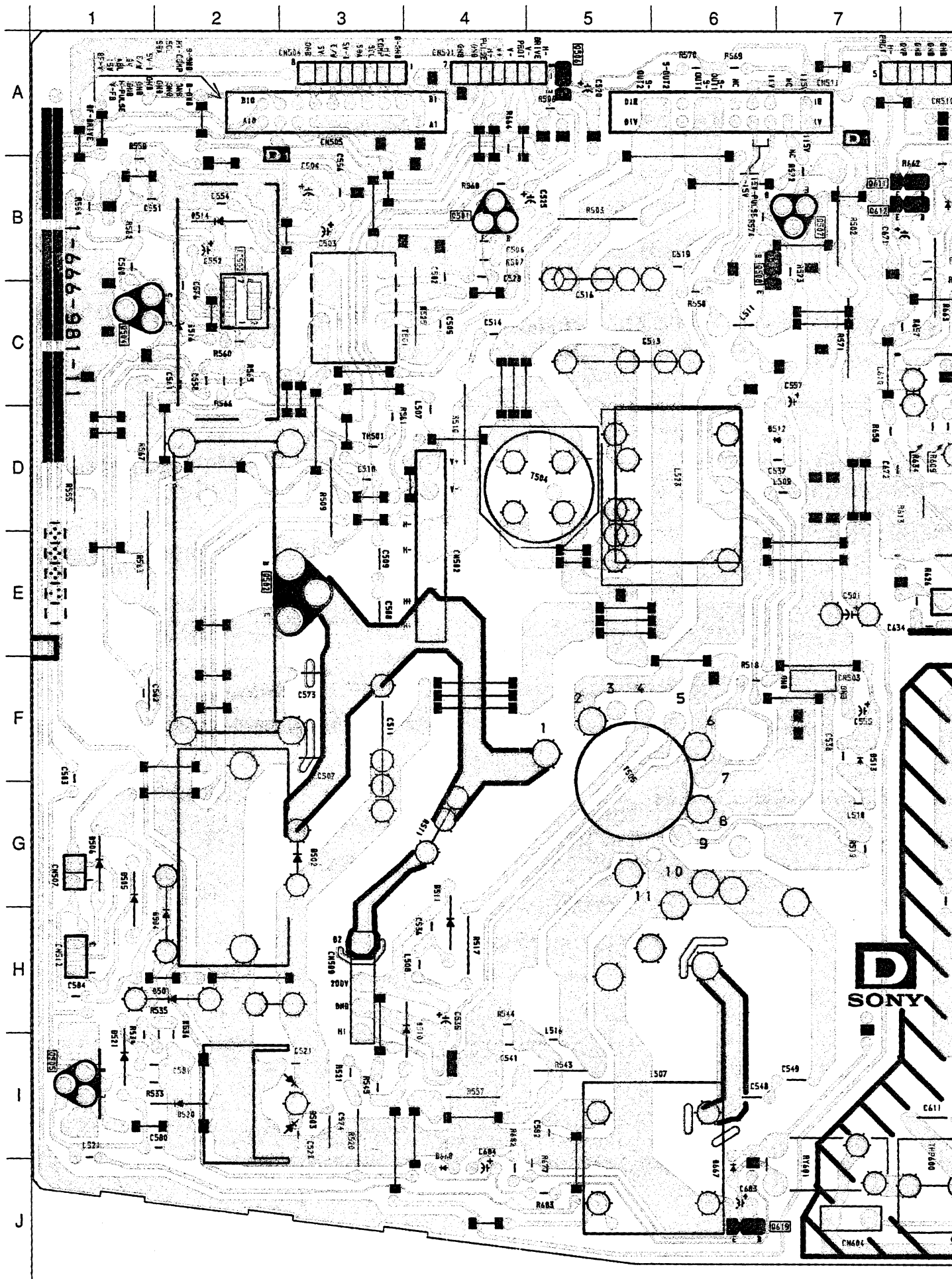
D

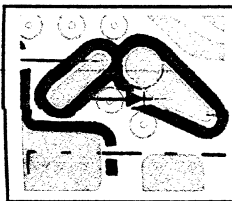
POWER SUPPLY
DEFLECTION HV

D BOARD

D BOARD

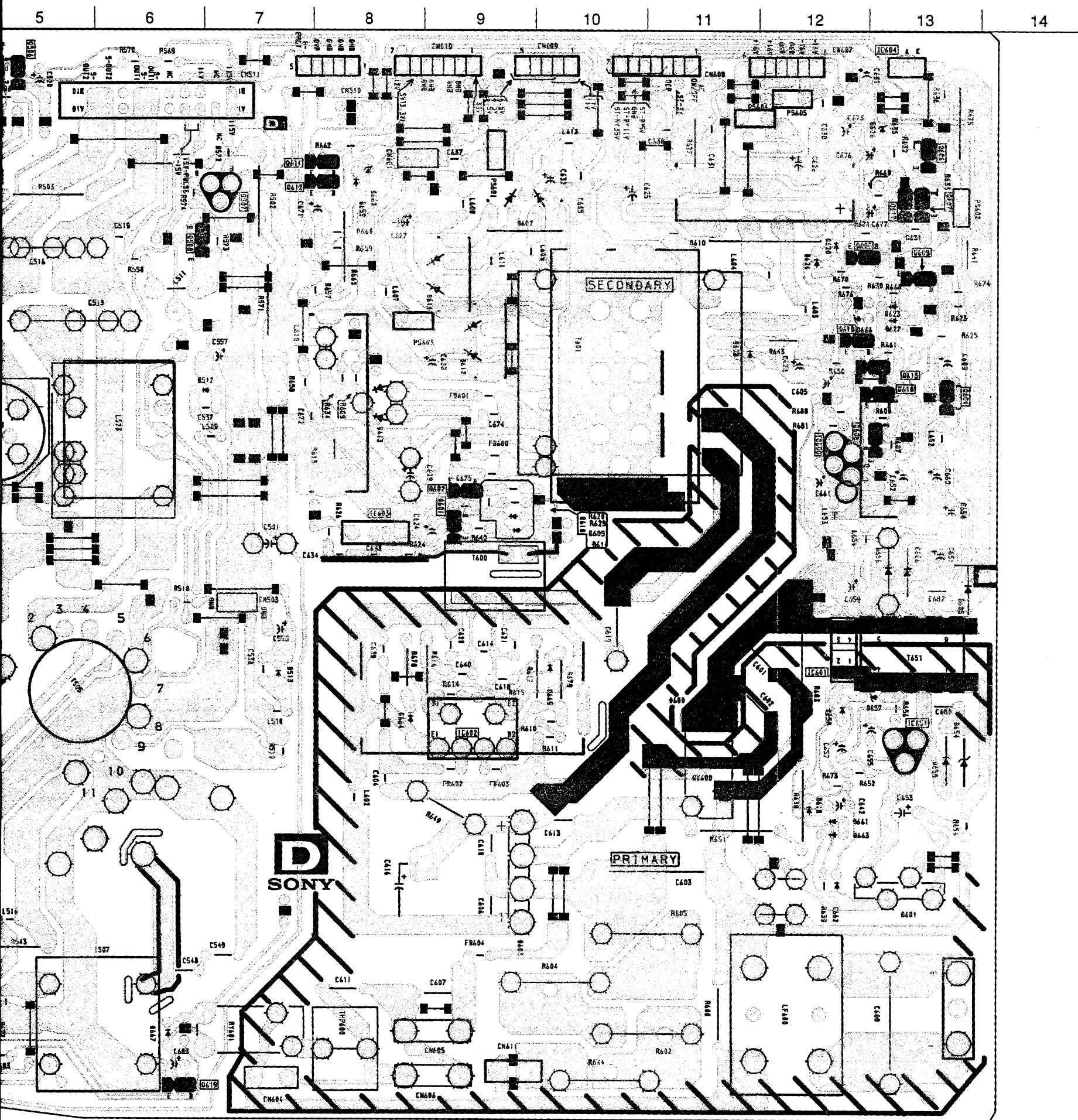
IC		D513	F-7
IC502	C-2	D514	B-2
IC600	D-12	D516	C-2
IC601	F-12	D520	I-2
IC602	G-9	D521	I-1
IC603	E-8	D600	G-11
IC604	A-13	D601	H-13
IC651	E-13	D602	B-9
TRANSISTOR		D603	B-10
Q501	B-4	D605	F-13
Q502	E-3	D606	E-13
Q504	C-1	D608	C-11
Q505	I-1	D609	E-9
Q506	A-5	D610	E-9
Q507	B-7	D611	C-9
Q508	B-7	D612	C-9
Q601	B-9	D613	D-8
Q602	B-9	D614	D-9
Q604	D-13	D618	H-12
Q605	B-13	D620	B-12
Q606	B-13	D622	C-13
Q607	B-13	D623	C-13
Q608	D-13	D624	C-12
Q609	C-13	D626	A-13
Q610	D-13	D654	G-13
Q611	B-8	D655	G-13
Q612	B-8	D656	E-13
Q613	C-13	D657	G-13
Q617	B-13	D658	G-12
Q618	C-12	D659	B-8
Q619	J-6	D660	B-8
DIODE		D661	H-12
D502	G-3	D662	H-12
D503	I-3	D663	H-12
D505	G-1	D664	G-8
D506	G-1	D665	F-10
D510	I-4	D666	C-12
D511	H-4	D667	J-6
D512	D-7	D668	J-4

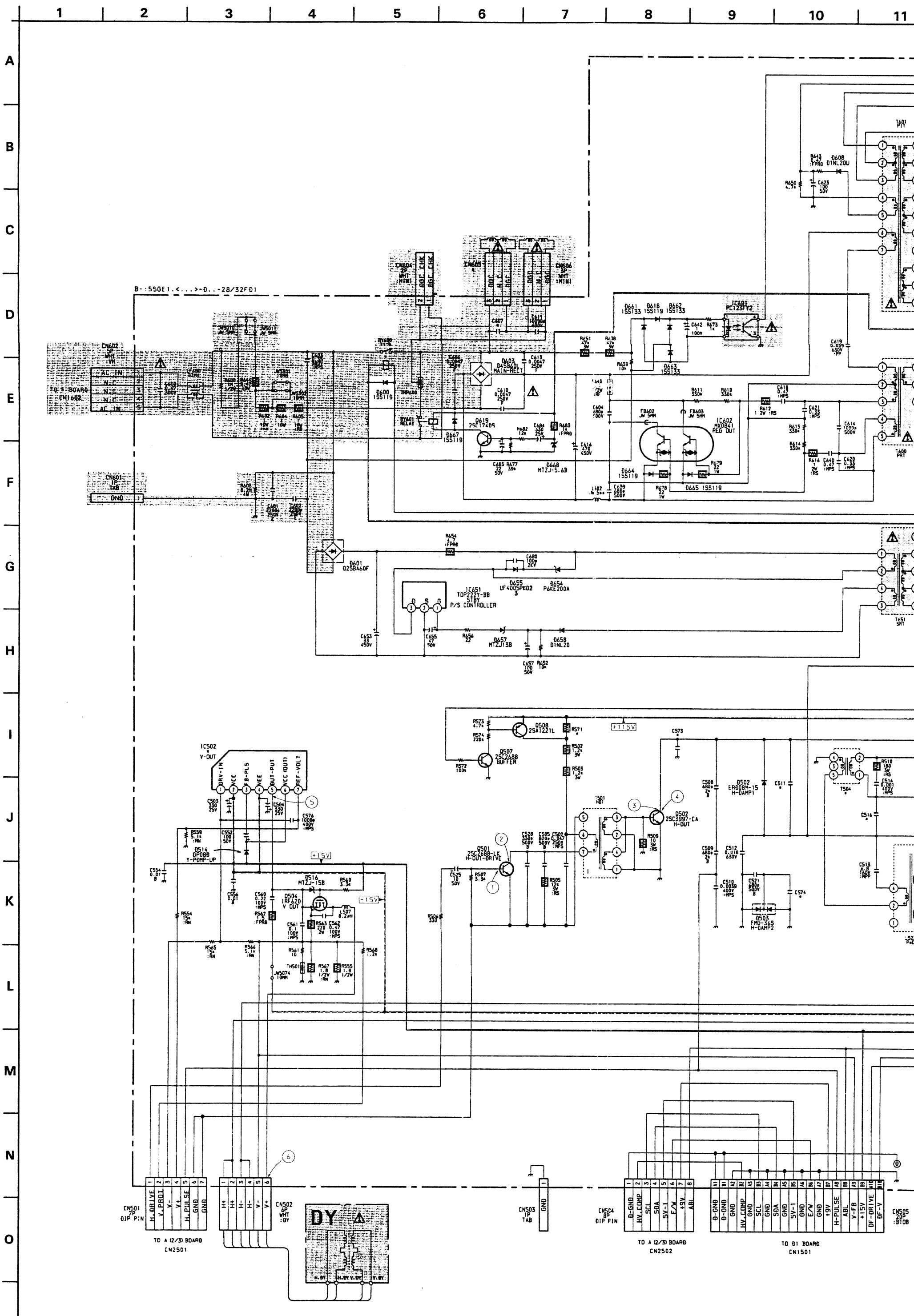


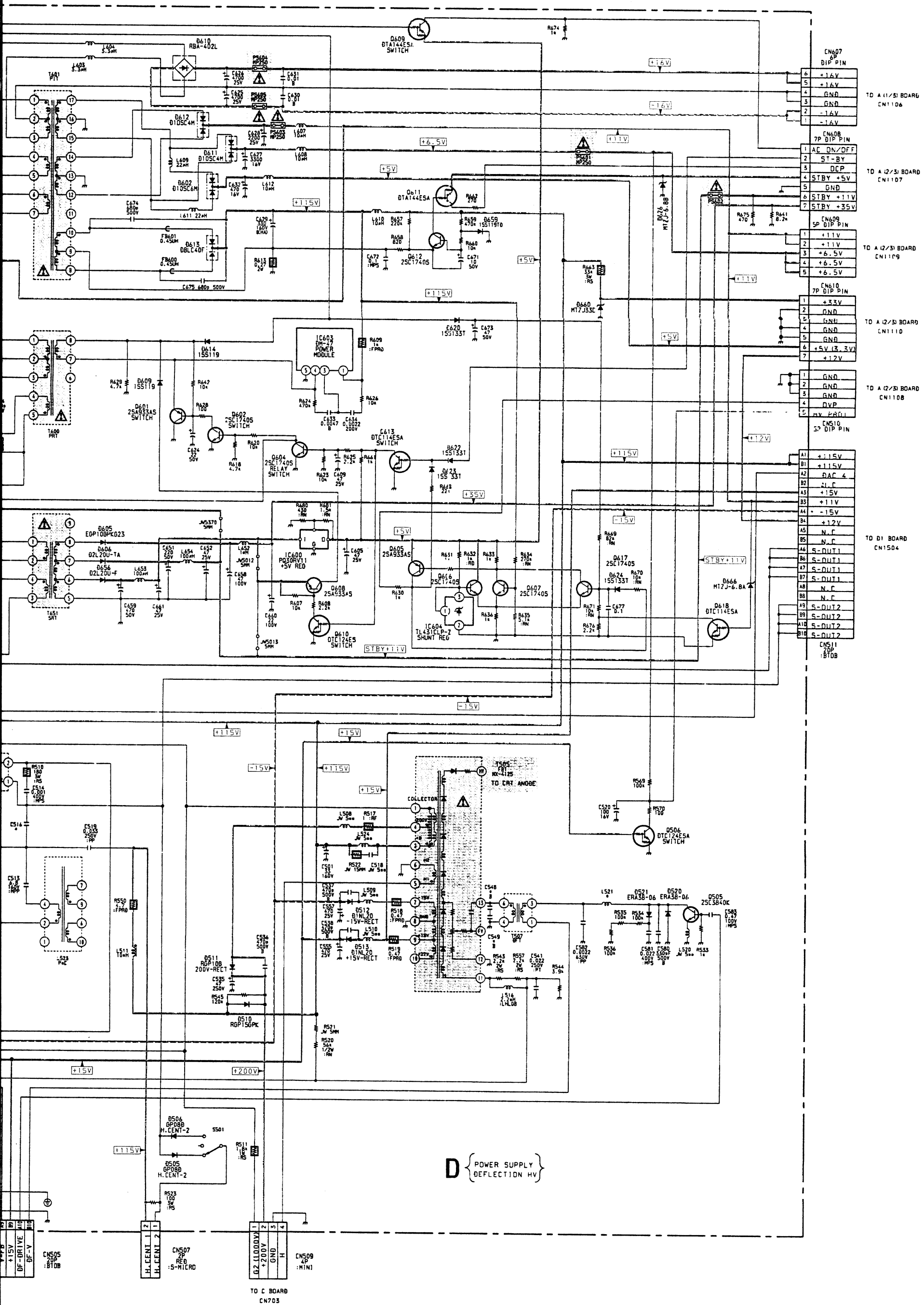


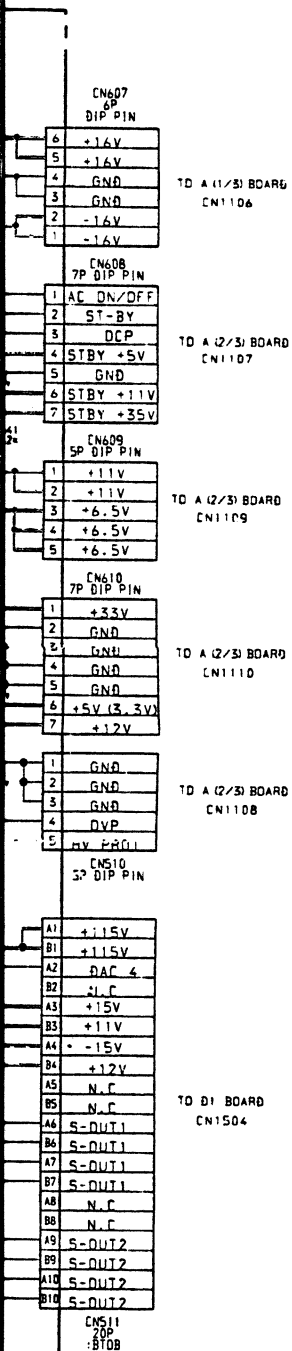
Note:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.









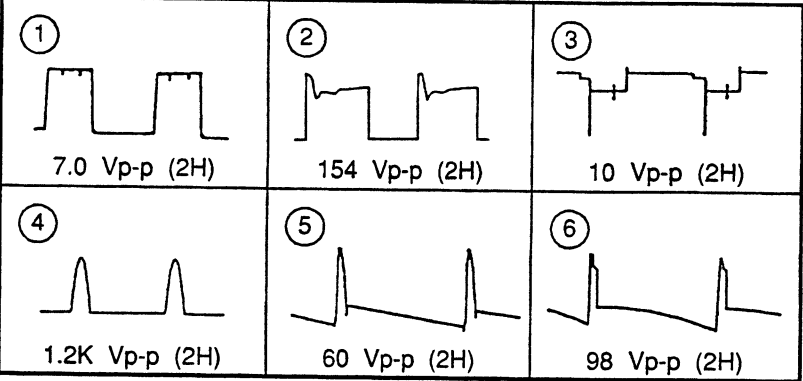
D BOARD
TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q501	-1.2	68.0	-
Q502	-	-381.0	-
Q505	-1.2	203.0	-
Q506	15.7	-	-
Q507	0.5	0.1	-
Q508	115.0	115.5	115.6
Q601	15.1	-	13.0
Q602	-	15.1	-
Q604	0.7	0.1	-
Q605	5.5	0.1	5.5
Q606	2.4	5.5	1.8
Q607	2.0	5.5	1.8
Q608	6.5	7.1	7.1
Q609	-	5.4	5.5
Q610	4.0	-	-
Q611	5.4	0.1	5.4
Q612	0.4	5.4	0.1
Q613	-	4.0	-
Q616	7.6	0.2	7.6
Q617	1.6	5.5	1.8

D BOARD IC VOLTAGE TABLE

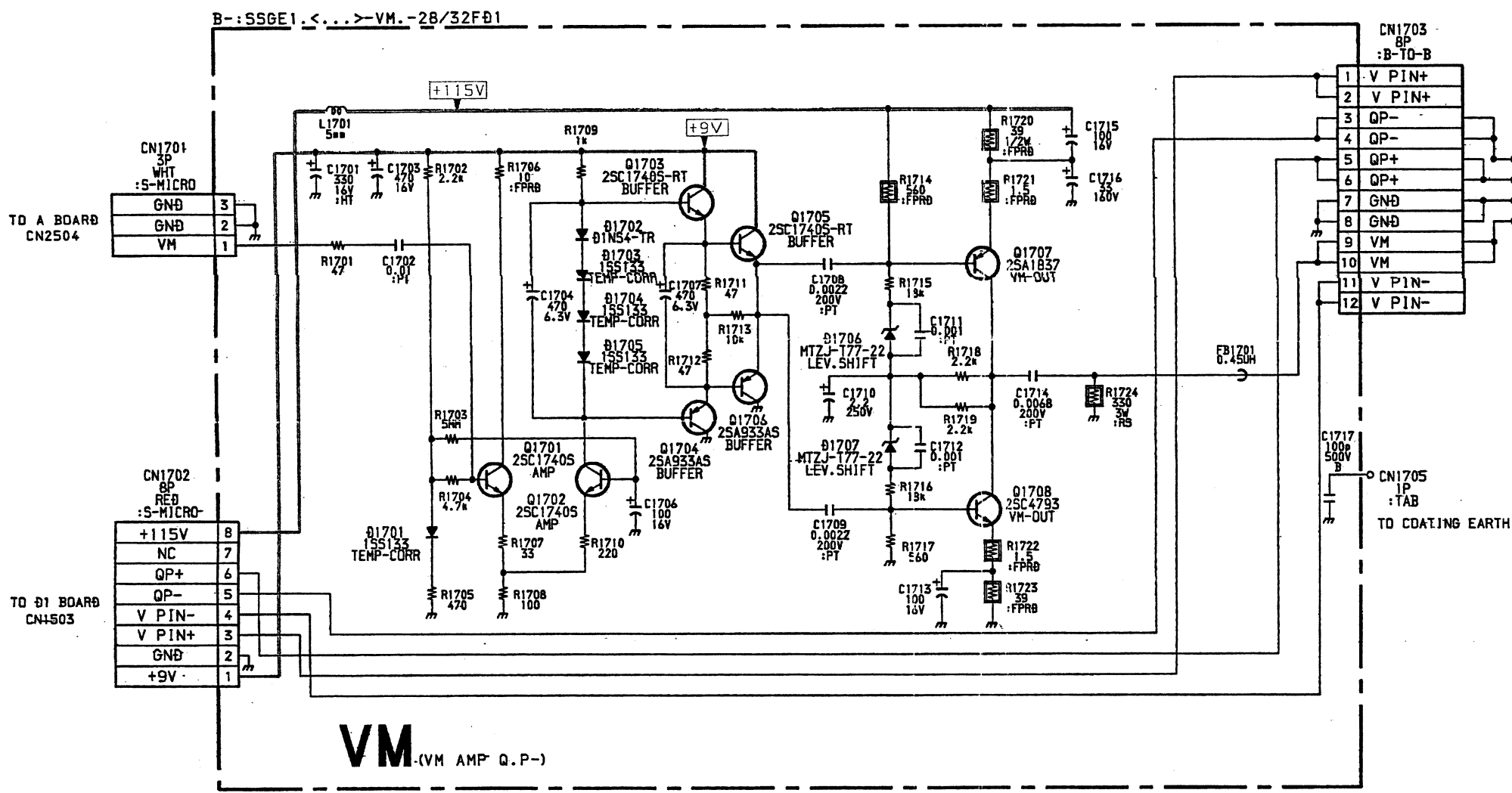
IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC502	1	0.5
	2	15.0
	3	-13.7
	4	-15.9
	6	16.0
	7	0.5
IC601	2	-1.1
IC603	1	114.5
	3	2.4
	4	13.0
IC651	1	-61.5
	2	-68.3
	3	-133.5

WAVEFORMS D BOARD



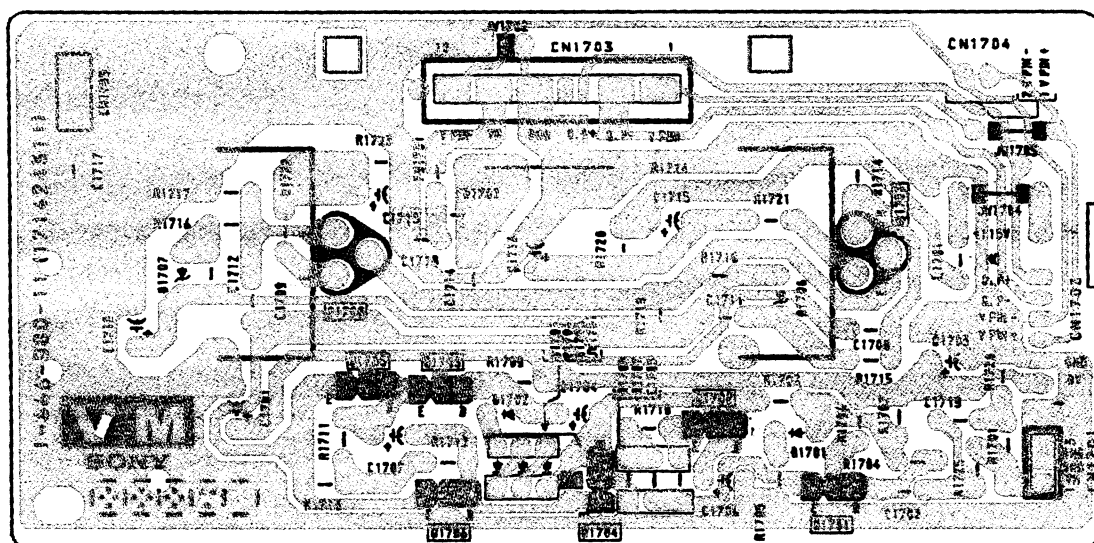
D BOARD * MARK

	28FD1E	28FD1K	32FD1E	32FD1K
C511	0.18MF 2.5KV	0.18MF 2.5KV	0.17MF 1.2KV	0.17MF 1.2KV
C516	0.39MF	0.39MF	0.56MF	0.56MF
C548	100PF	100PF	150PF	150PF
C549	100PF	100PF	150PF	150PF
C573	330PF	330PF	—	—
C574	0.0033MF	0.0033MF	0.0056MF	0.0056MF
C607	LEAD JUMPER(10MM)	LEAD JUMPER(10MM)	0.01MF	0.01MF
CN605	—	—	3-Pin	3-Pin
L521	1MMH	1MMH	3.3MMH	3.3MMH
T504	1-431-599-11	1-431-599-11	1-431-600-11	1-431-600-11



VM [REMOTE RECEIVER]

VM BOARD



Q BOARD

IC	
IC1	D-14
IC2	D-12
IC3	D-17
IC4	E-15
IC5	E-16
IC6	E-16
IC7	B-14
IC8	B-11
IC9	C-10
IC10	B-15
IC11	D-11
IC12	C-18
IC13	B-17
TRANSISTOR	
Q1	B-15
Q2	C-1
Q3	C-1
Q4	C-2

03
D-B
N+
N+
N-
N-
05
B
DATING EARTH

VM BOARD
TRANSISTOR VOLTAGE TABLE

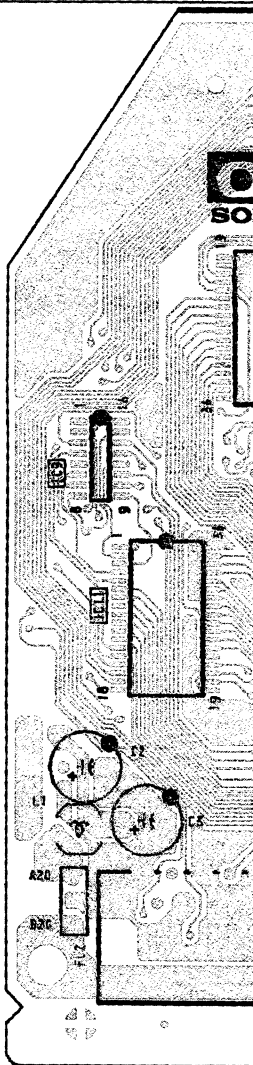
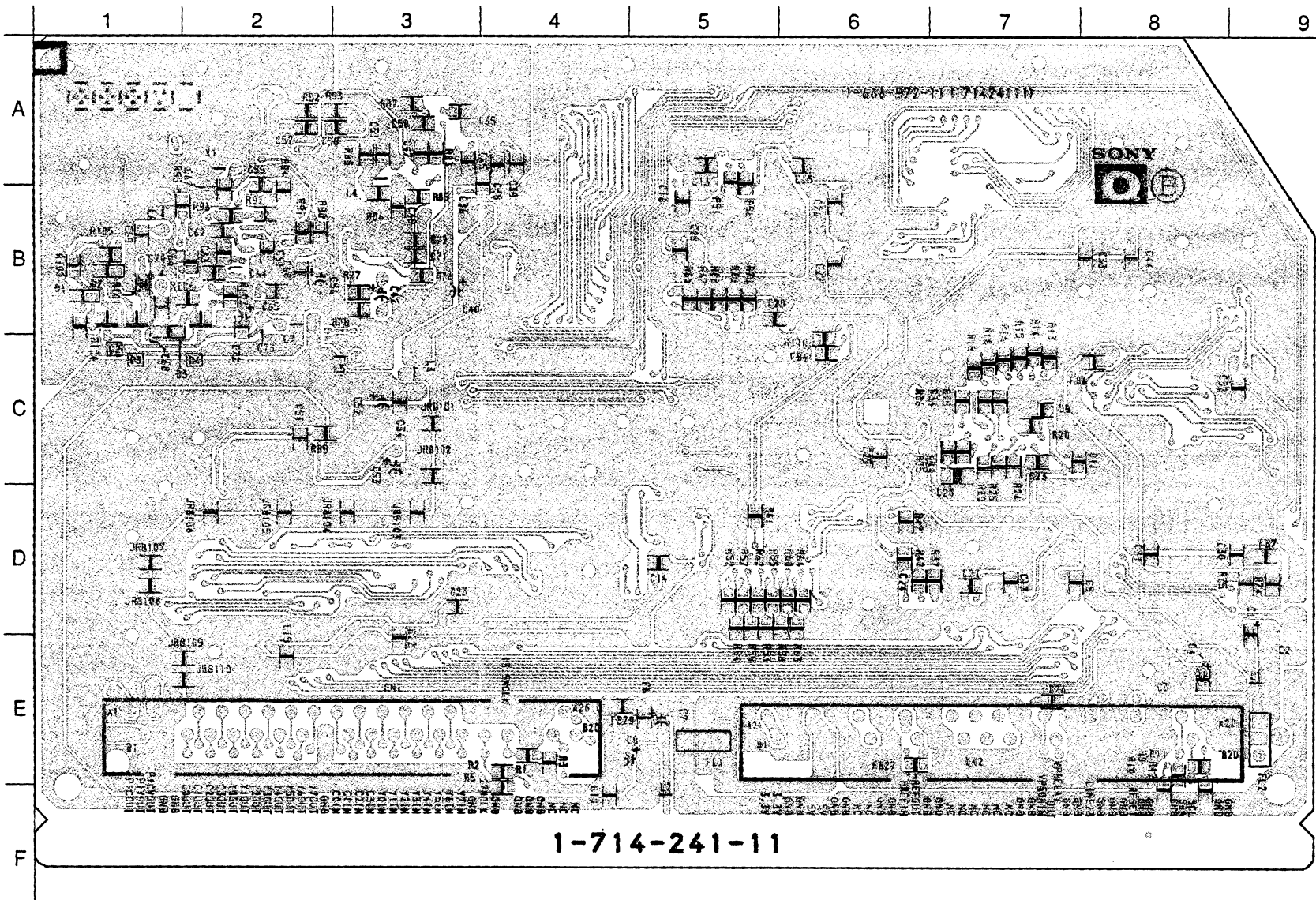
Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q1701	1.9	8.0	1.2
Q1702	2.0	4.7	1.4
Q1704	4.7	-	5.4
Q1706	5.4	-	5.0
Q1707	114.8	-85.0	114.8

Q

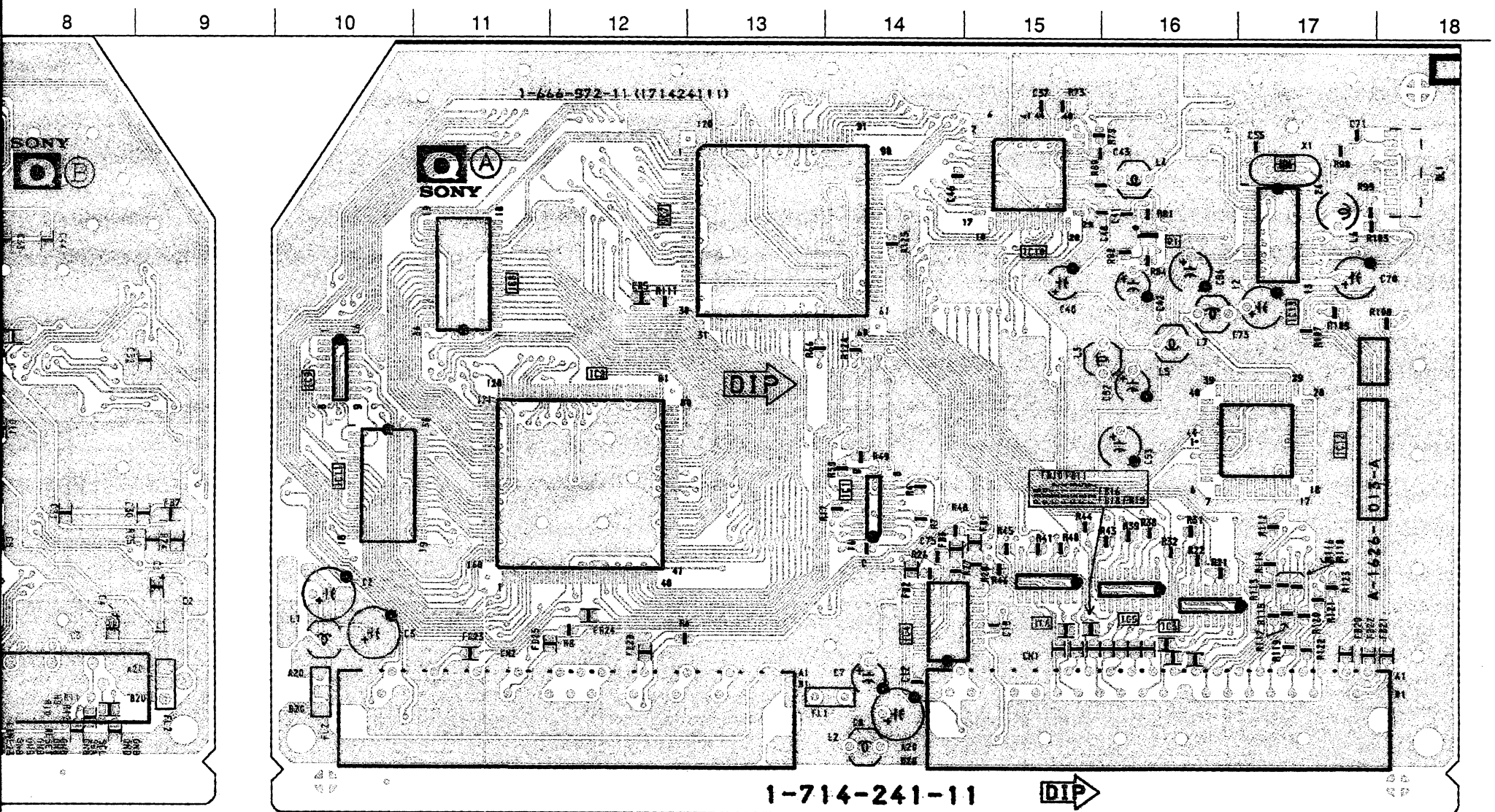
SCANLINE VIDEO PROCESSOR
PAL PLUS PROCESSOR
12C BUS INTERFACE,
TIMING GENERATOR

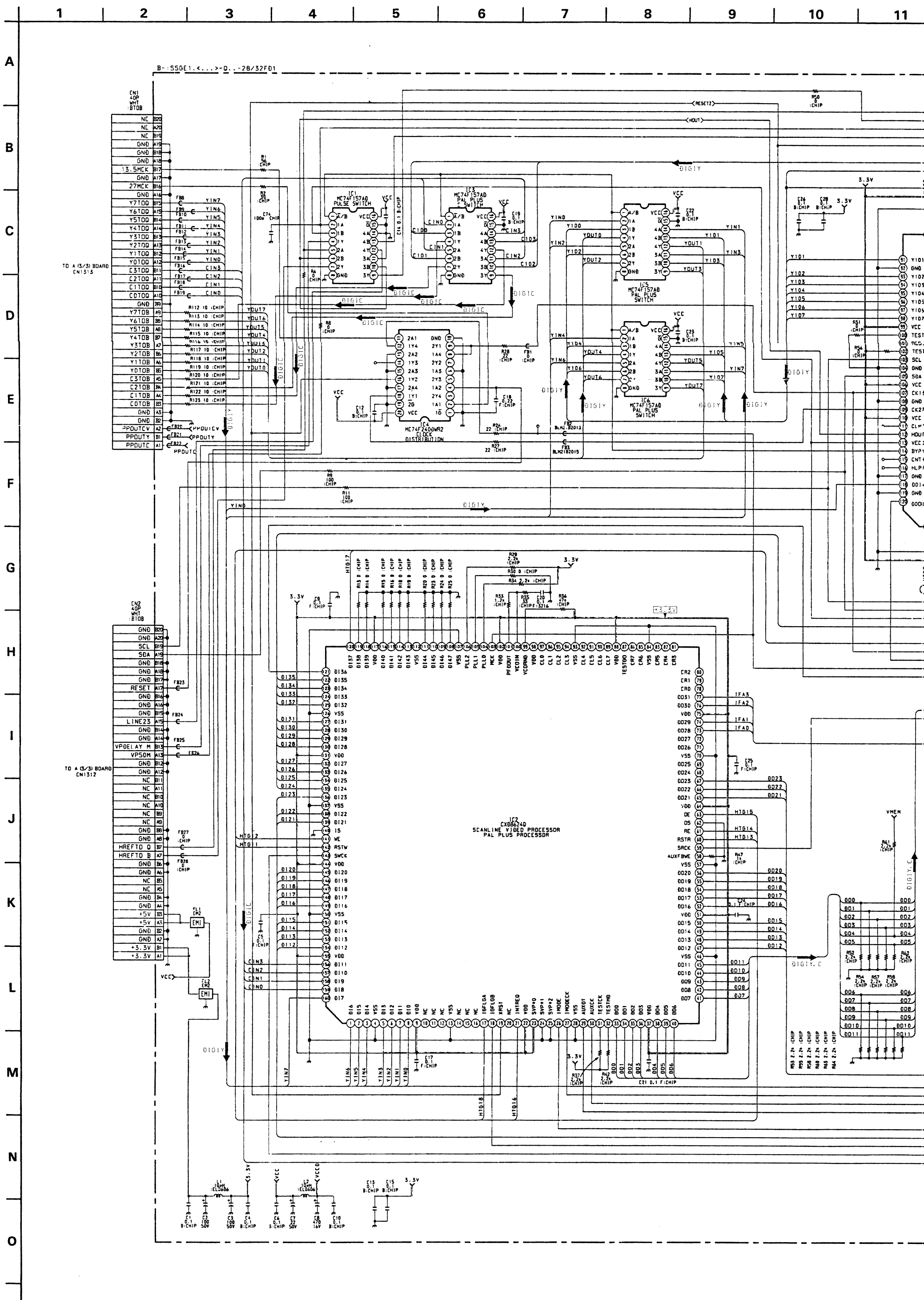
Q Board < Conductor Side >

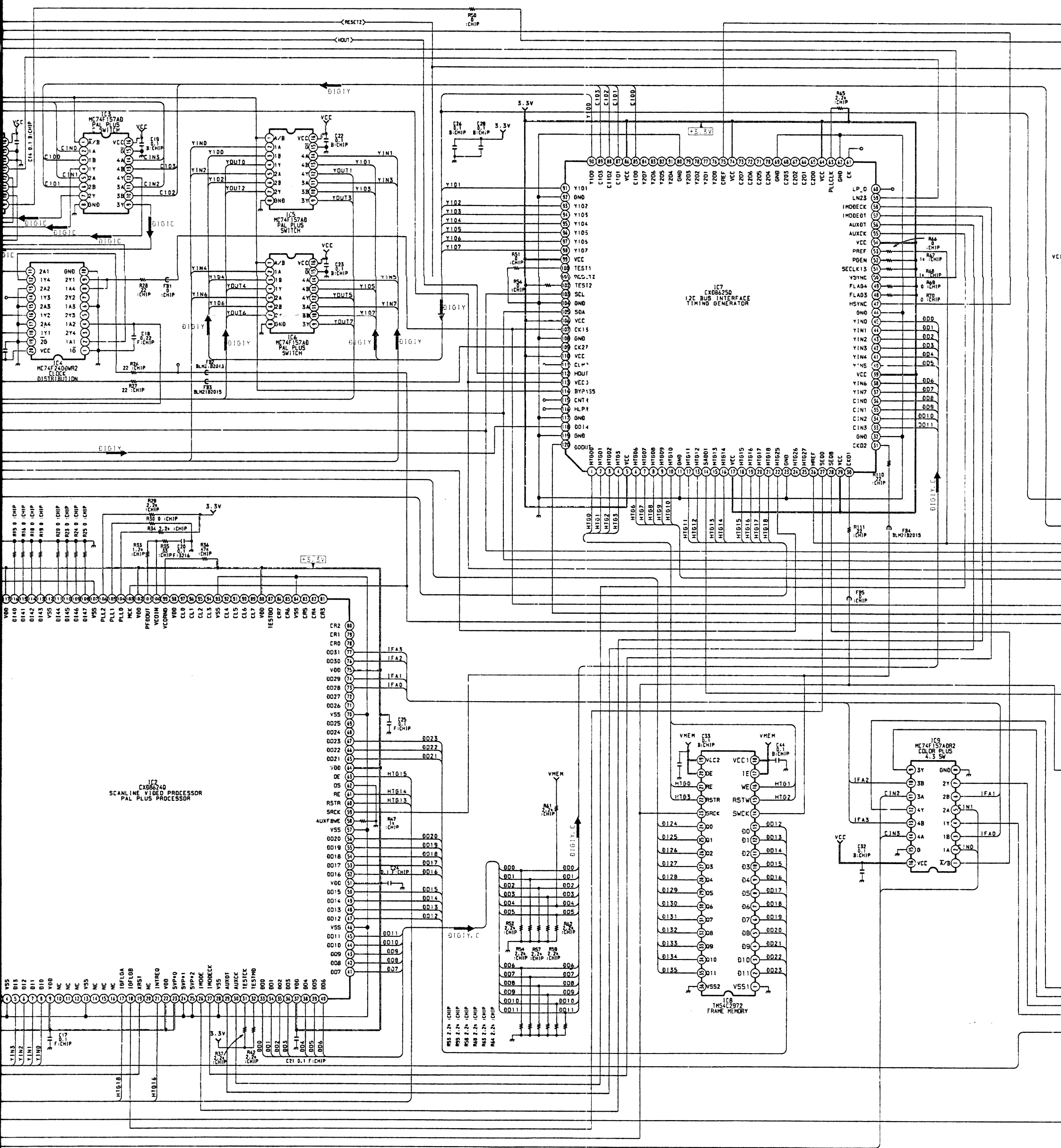
Q Board < Comp

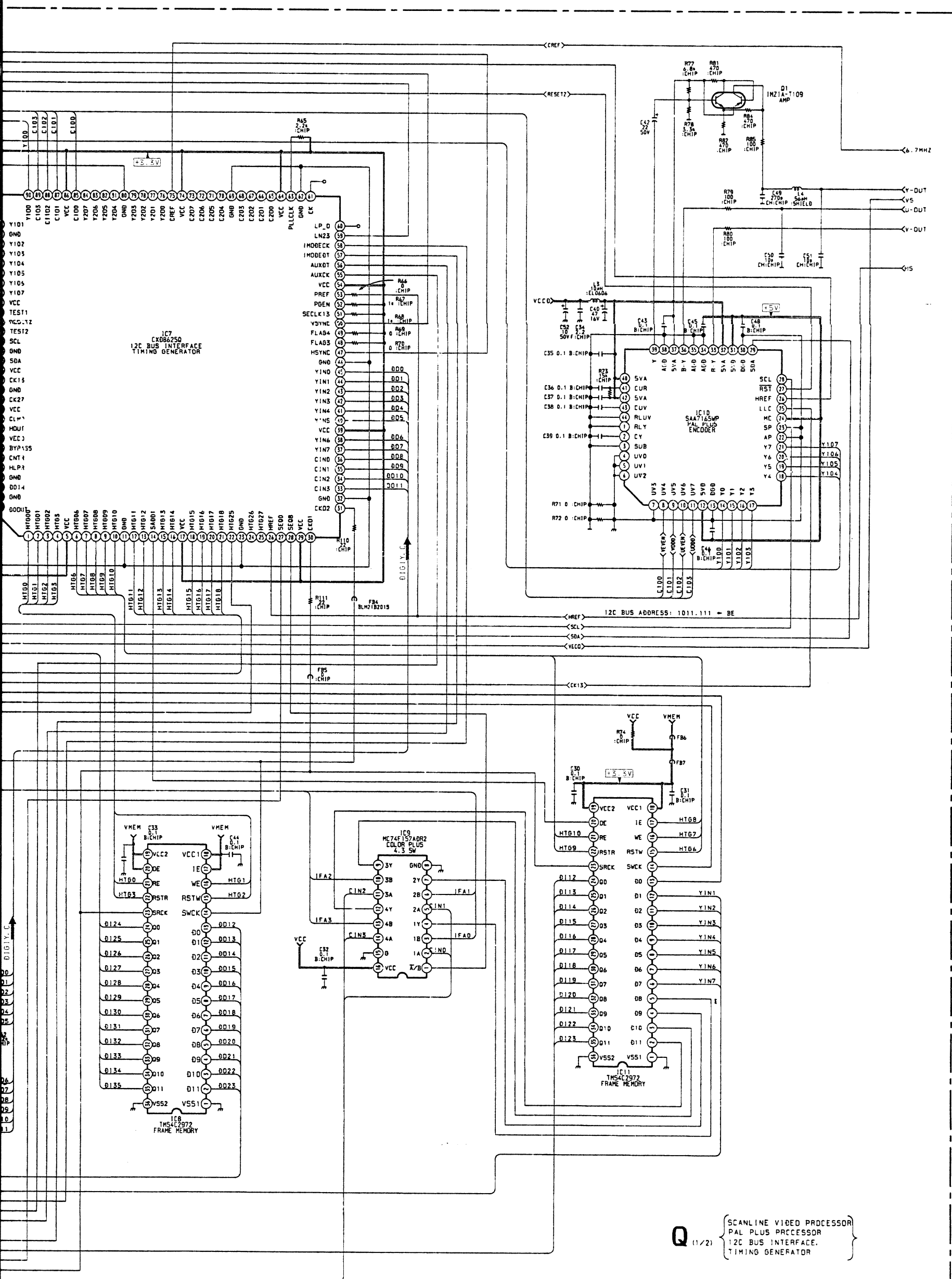


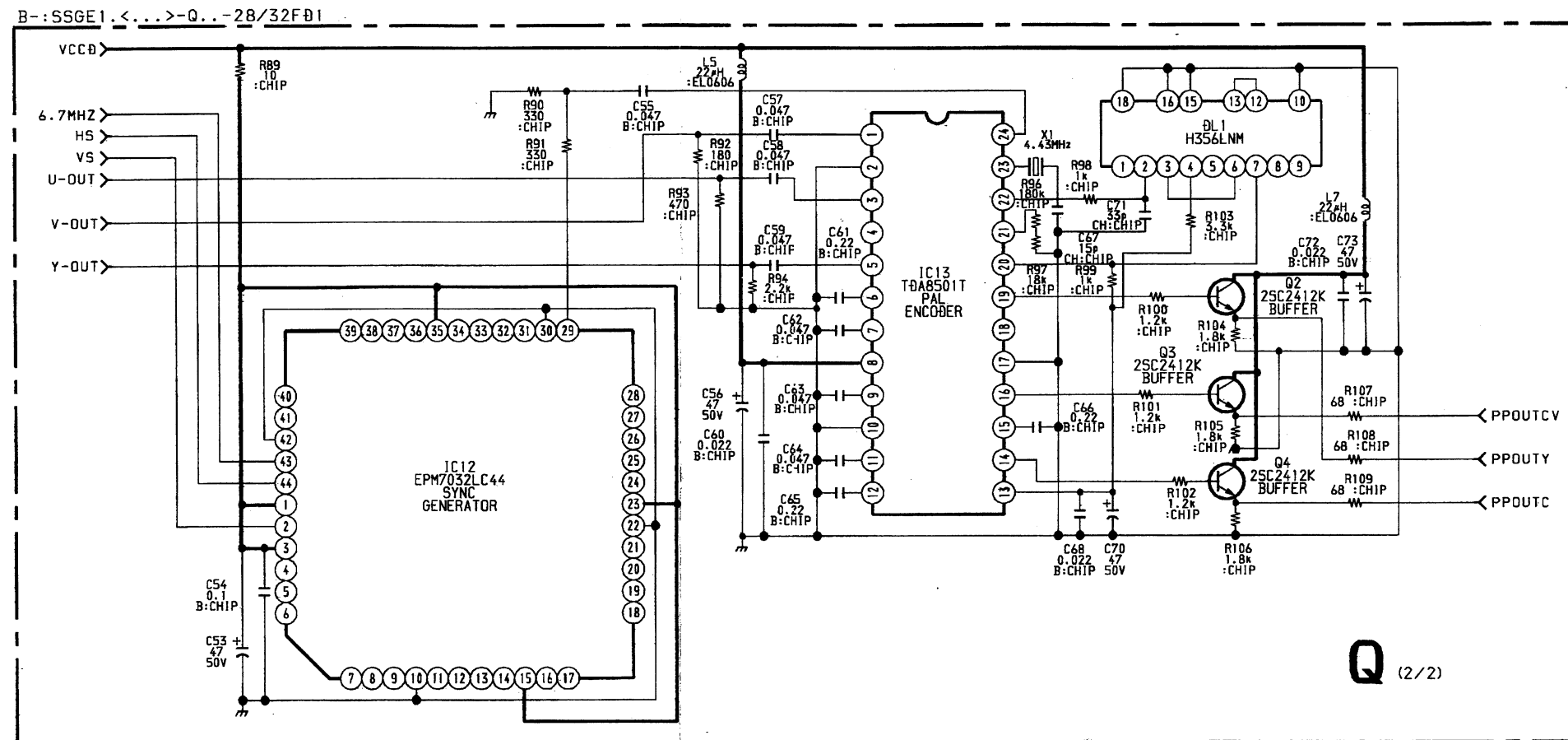
Q Board < Component Side >











J BOARD

IC		D4211	C-12
IC4201	D-9	D4212	B-10
IC4202	F-10	D4213	C-10
IC4203	H-7	D4214	A-10
IC4204	G-4	D4215	C-10
TRANSISTOR		D4216	A-10
Q4201	A-8	D4217	A-3
Q4202	D-8	D4218	C-10
Q4203	A-8	D4219	I-8
Q4204	C-7	D4220	B-10
Q4205	H-7	D4221	I-8
Q4206	C-6	D4222	B-10
Q4207	H-7	D4223	I-8
Q4208	C-7	D4224	A-9
Q4209	A-6	D4225	C-9
Q4210	A-6	D4226	H-8
Q4214	A-3	D4227	C-9
Q4215	B-2	D4228	C-9
Q4216	C-2	D4229	B-9
Q4217	A-3	D4230	B-9
Q4219	A-3	D4232	I-7
Q4220	B-2	D4233	I-7
Q4221	C-3	D4234	B-7
Q4222	C-2	D4235	I-7
Q4223	D-2	D4236	C-1
Q4224	C-4	D4237	B-4
DIODE		D4238	C-1
D4201	C-11	D4239	I-5
D4202	C-11	D4240	I-3
D4203	A-11	D4241	H-3
D4204	A-11	D4242	H-3
D4205	A-12	D4243	H-3
D4206	B-12	D4244	D-1
D4207	B-12	D4245	C-4
D4208	B-12	D4246	C-4
D4209	C-12	D4252	C-3
D4210	C-11	D4253	C-3

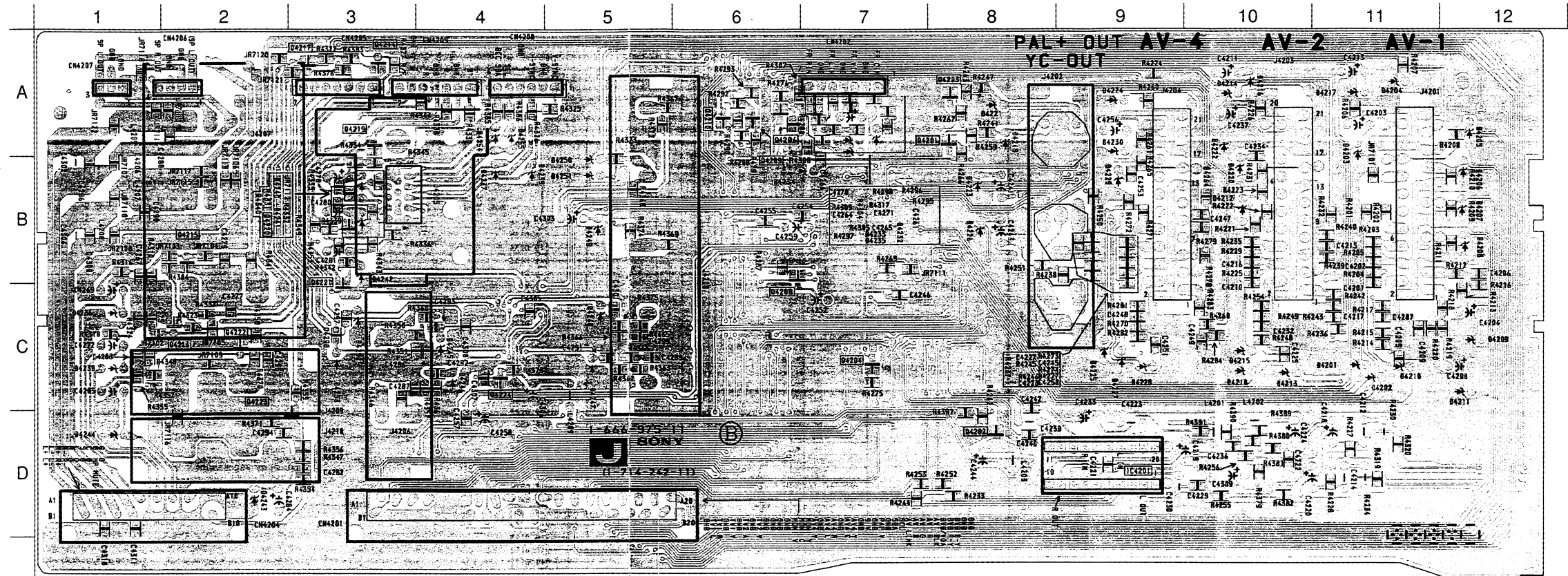
J

AV INPUT/OUT INTERFACE
AUDIO SELECTOR, HIP. AMP
AUDIO SWITCH

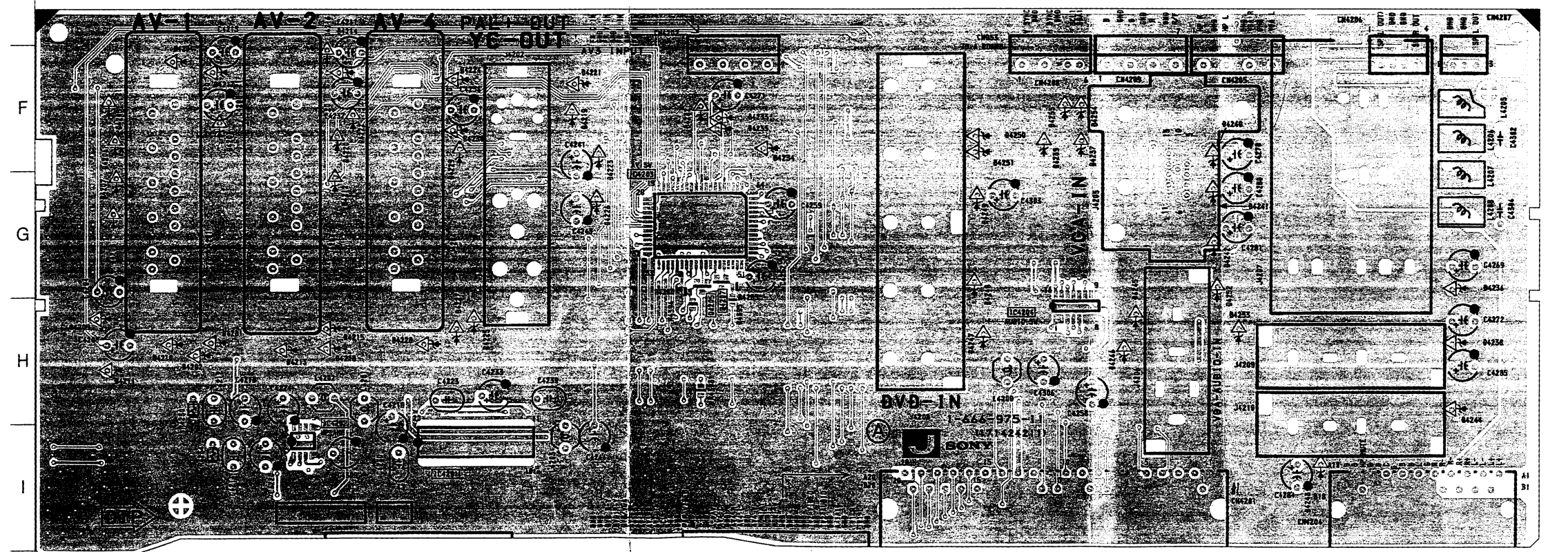
J Board < Conductor Side >

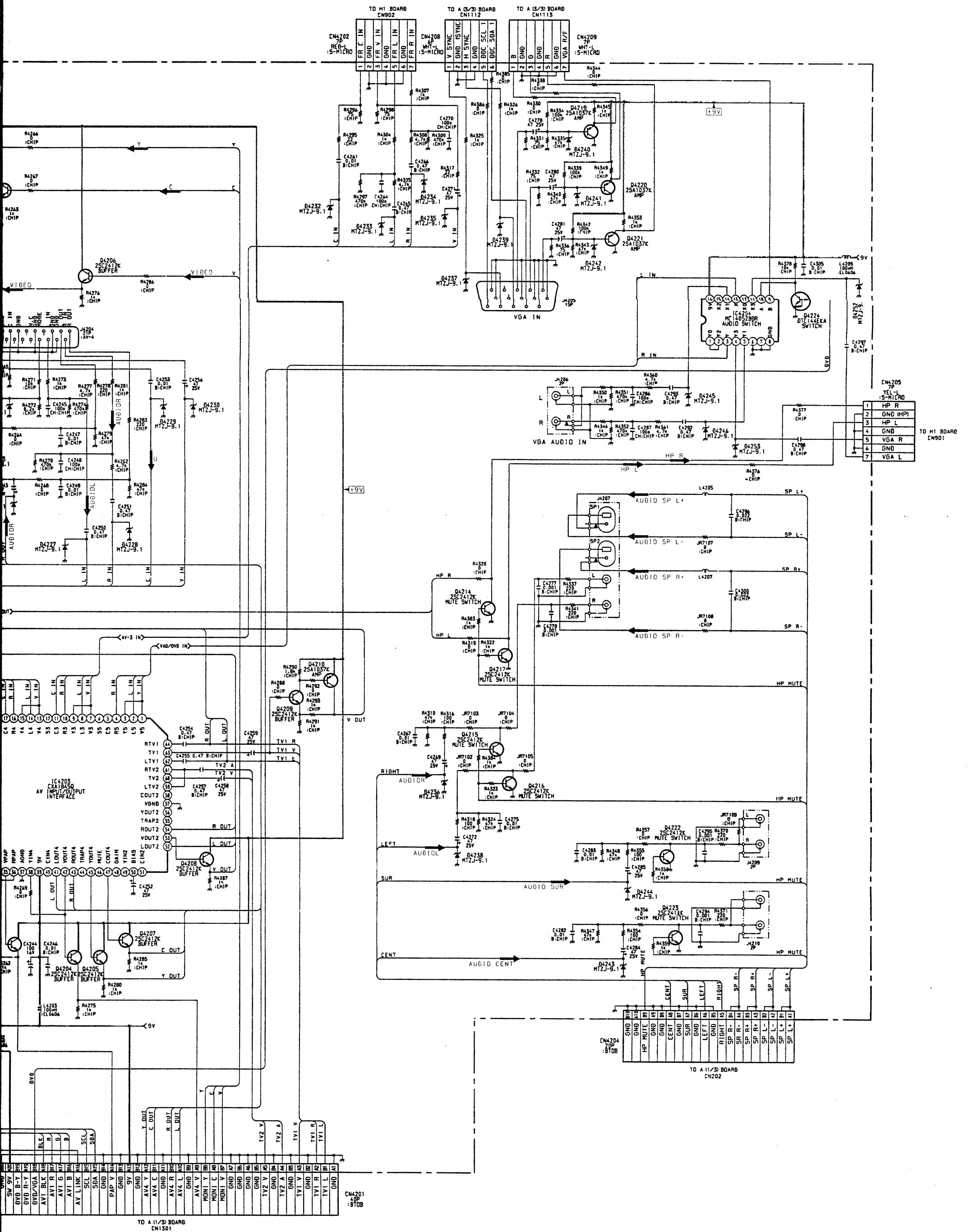
J BOARD

IC		D4211	C-12
IC4201	D-9	D4212	B-10
IC4202	F-10	D4213	C-10
IC4203	H-7	D4214	A-10
IC4204	G-4	D4215	C-10
TRANSISTOR		D4216	A-10
Q4201	A-8	D4217	A-3
Q4202	D-8	D4218	C-10
Q4203	A-8	D4219	I-8
Q4204	C-7	D4220	B-10
Q4205	H-7	D4221	I-8
Q4206	C-6	D4222	B-10
Q4207	H-7	D4223	I-8
Q4208	C-7	D4224	A-9
Q4209	A-6	D4225	C-9
Q4210	A-6	D4226	H-8
Q4214	A-3	D4227	C-9
Q4215	B-2	D4228	C-9
Q4216	C-2	D4229	B-9
Q4217	A-3	D4230	B-9
Q4219	A-3	D4232	I-7
Q4220	B-2	D4233	I-7
Q4221	C-3	D4234	B-7
Q4222	C-2	D4235	I-7
Q4223	D-2	D4236	C-1
Q4224	C-4	D4237	B-4
DIODE		D4238	C-1
D4201	C-11	D4239	I-5
D4202	C-11	D4240	I-3
D4203	A-11	D4241	H-3
D4204	A-11	D4242	H-3
D4205	A-12	D4243	H-3
D4206	B-12	D4244	D-1
D4207	B-12	D4245	C-4
D4208	B-12	D4246	C-4
D4209	C-12	D4252	C-3
D4210	C-11	D4253	C-3



J Board < Component Side >





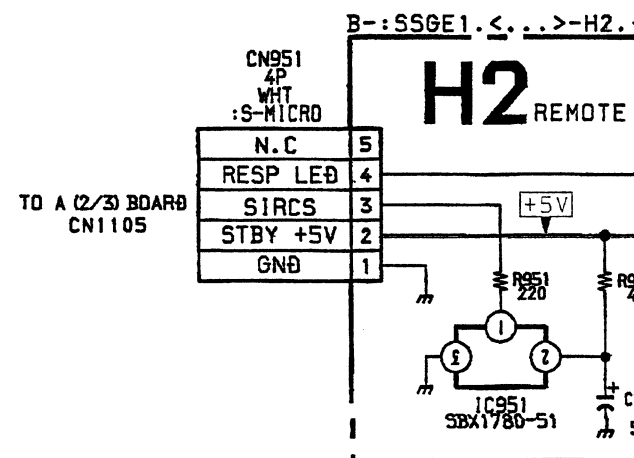
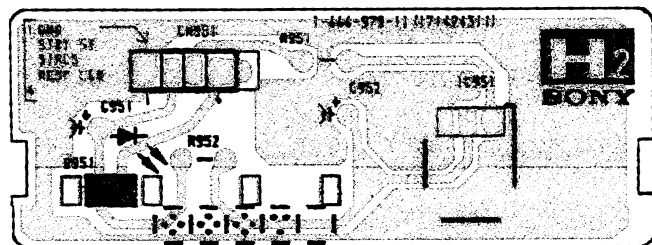


IC Voltage Table

Transistor Voltage Table

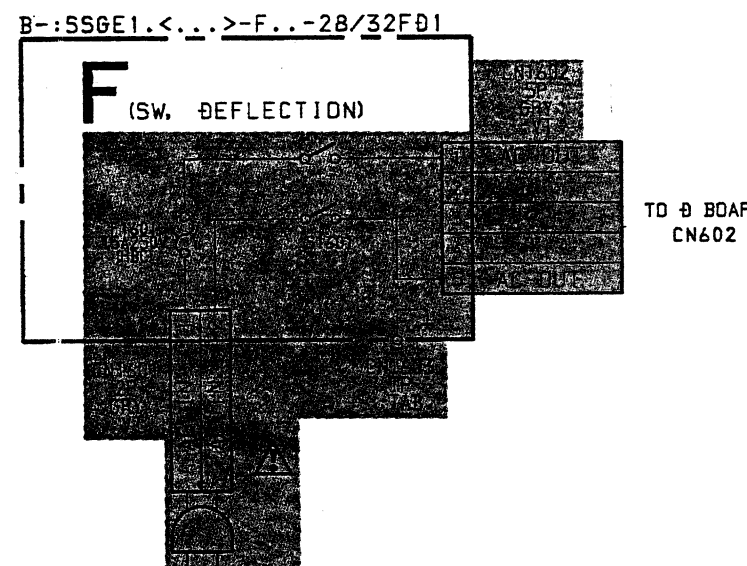
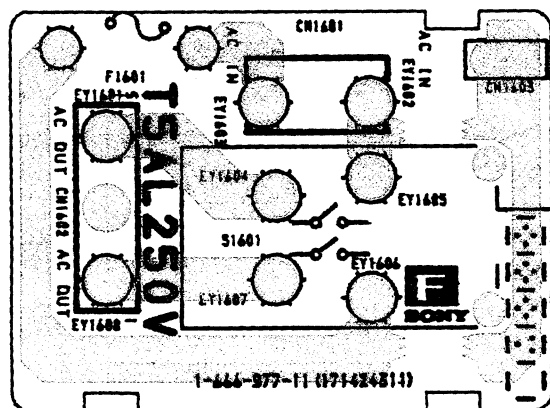
H2 [REMOTE RECEIVER]

H2 BOARD



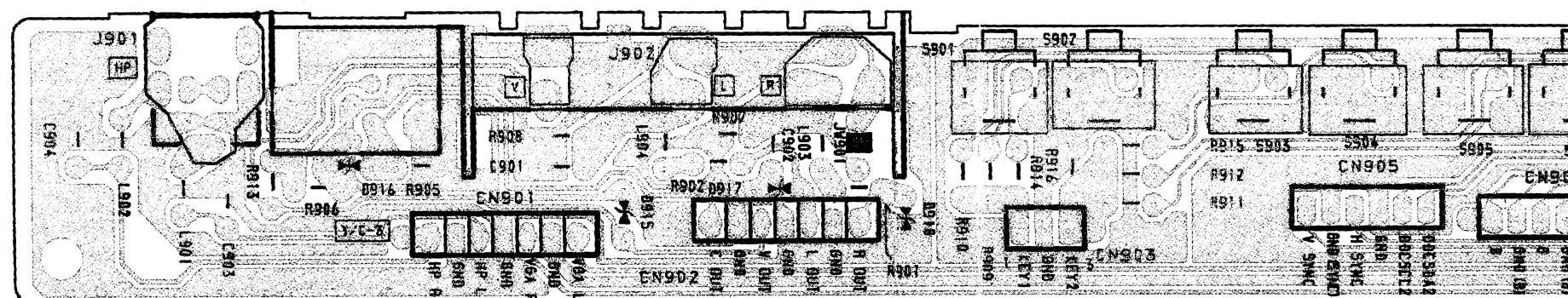
F [SW DEFLECTION]

F BOARD



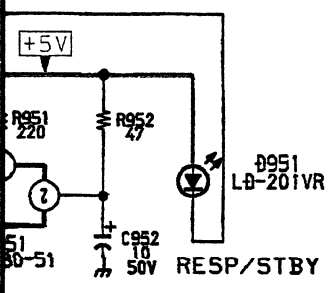
H1 [FRONT INPUT]

H1 BOARD

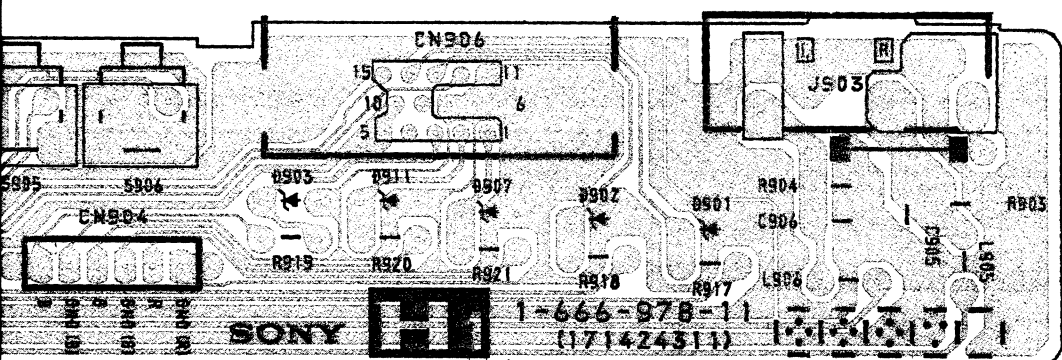


...>-H2.-2B/32FD1

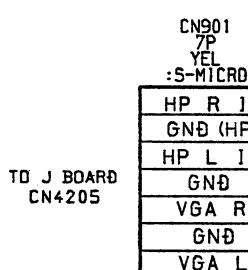
2 REMOTE RECEIVER



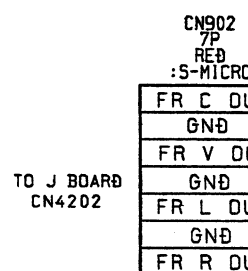
TO D BOARD
CN602



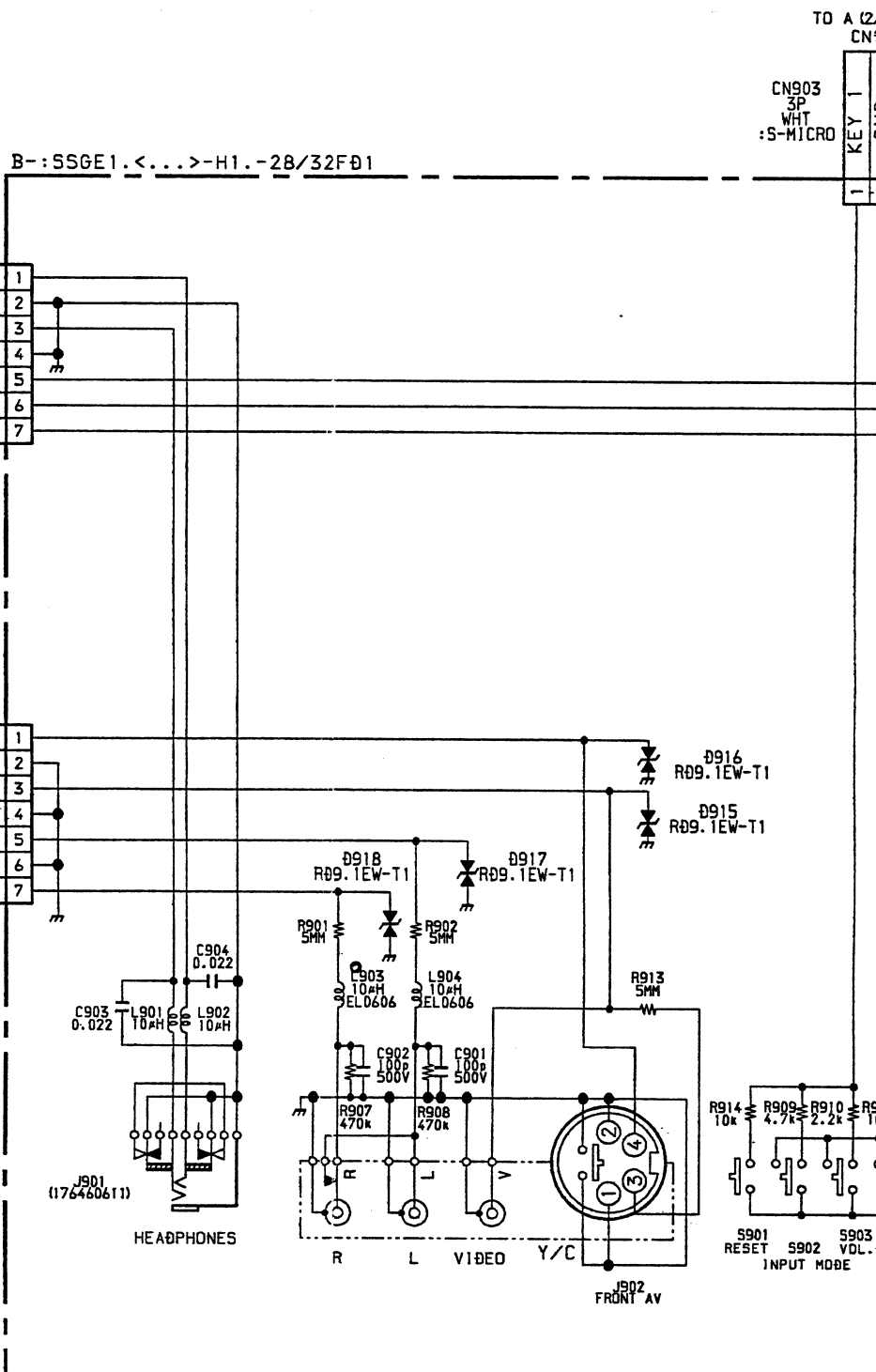
B-:SSGE1.<...>-H1.-2B/32FD1

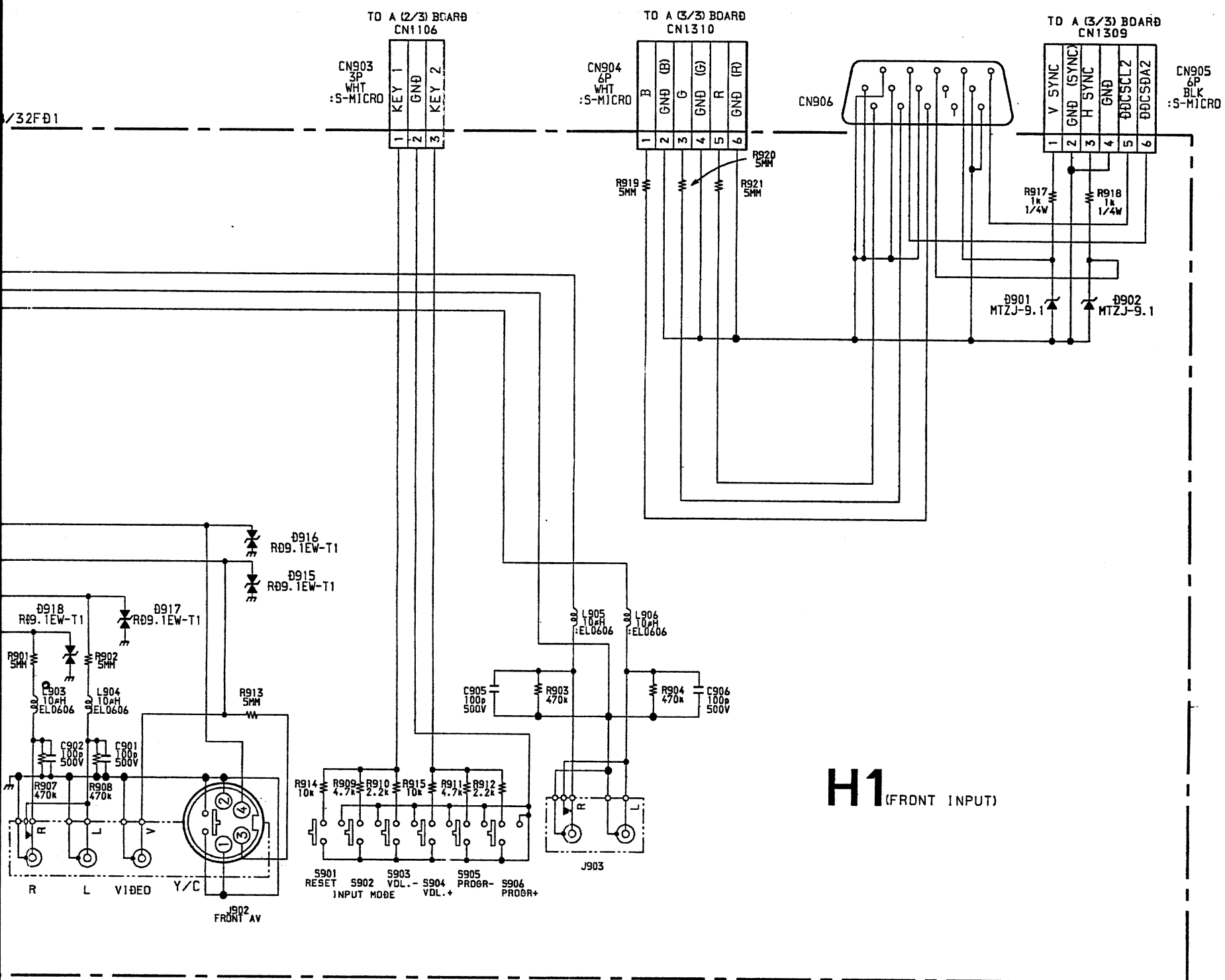


TO J BOARD
CN4205



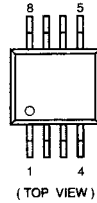
TO J BOARD
CN4202



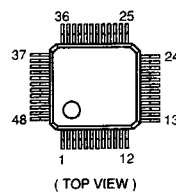


5-4. SEMICONDUCTORS

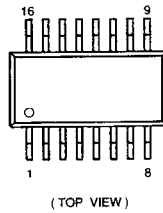
BA7046F
BA7046F-T1
MB3793-42PNF
MB3793-42PNF-ER
MC14066BFEL
NJM2240M
NJM2240M(Te2)



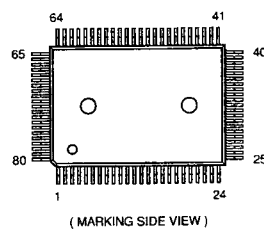
CXA1855Q-T6



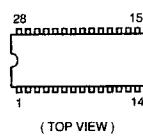
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MC14052BDR2
MC14053BF-T2
MC74F157ADR2
SN74LS221D
74HCT4046AD/S470



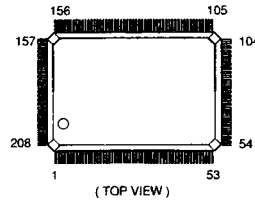
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SAA4990H/V2



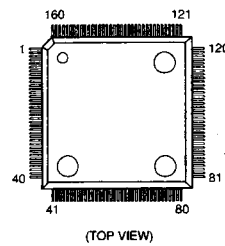
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TDA4780/V3



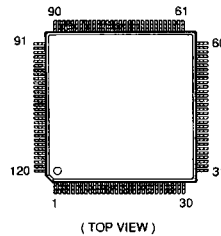
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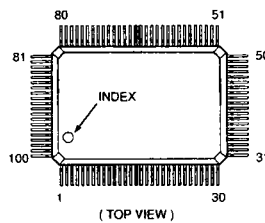
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CXD8625Q



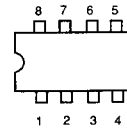
CXD8626Q



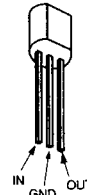
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LM2940T-9.0
L4941BV
TEA7605



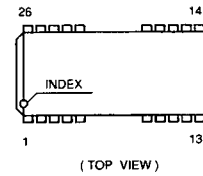
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UPC393C



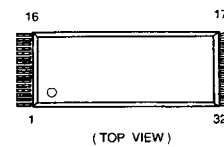
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LM78L12ACZ
L78L05ACZ-AP
L78L12ACZ-AP
MC78L05AC PRP



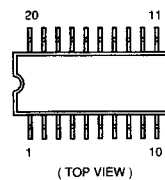
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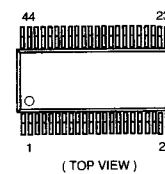
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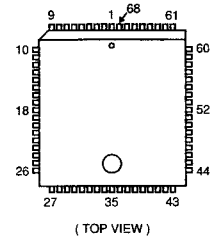
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MC74F244MEL



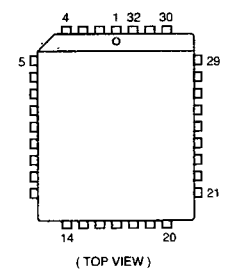
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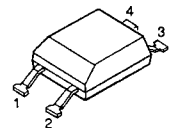
MSP3400C-PS-C6-T
MSP3410B-PS-F7-T-ND
SAA7185WP
SDA30C164-2-GEG
SDA30C164-2-GEG
SDA5273P-C26-GEG
SDA5275
SDA9280B22



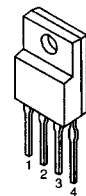
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M27C4001-15C1-GE101



PC123F2
PC123FY2

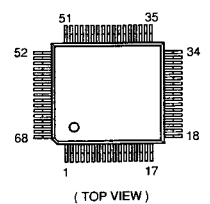


PQ05RF21

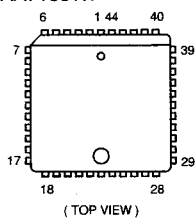


1 : VIN
2 : VOUT
3 : GND
4 : ON/OFF CONTROL

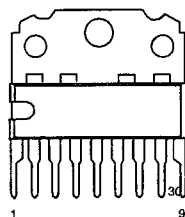
P83C654EBA/565
SDA9280A41



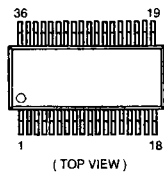
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SAA4952WP/V1
SAA7165WP



TDA6111Q
TDA6111Q/N4



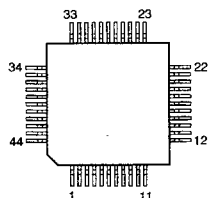
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TMS4C2972-28DTR



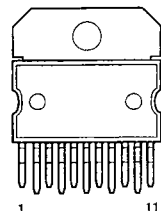
IRF620



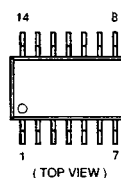
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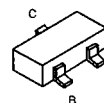
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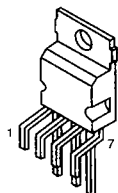
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U2860B-BFPG3
74LVC08D



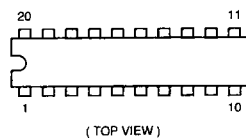
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DTA114EK-T146
DTA144EK
DTA144EK-T146
DTC114EK
DTC114EKA-T146
DTC124EKA-T146
DTC144EK
DTC144EK-T146
DTC144EKA-T146
2SA1037K-T-146-R
2SA1162-G
2SC2412K-QR
2SC2412K-T-146-R



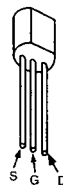
STV9379



TDA7309



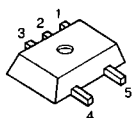
BC546B
BC556B



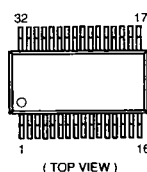
JA101TP-Q
JC501TP-Q
DTA144ESA
DTA144ESA-TP
DTC144ESA-TP
2SA1175-HFE
2SA733-K
2SA933AS-RT
2SA933AS-QRT
2SA933S-RT
2SC1740S-RT
2SC2785-HFE



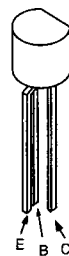
TC4S66F
TC4S66F-TE85L



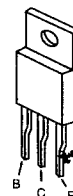
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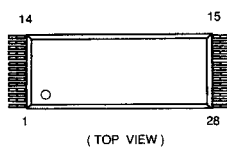
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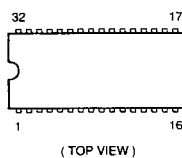
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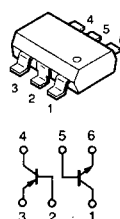
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TDA9143/N2
TDA9144/N2
TDA9170T



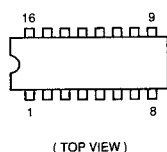
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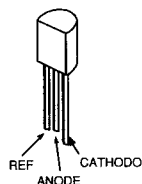
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2SC2552O-TPE2



TDA4665T-T



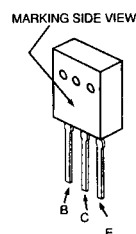
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TL431CLP-Z20
TL431CPS-T1
TL431CZ



2SC2688-LK



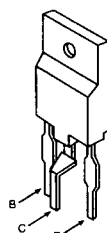
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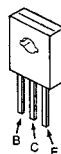
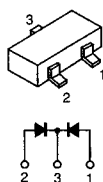
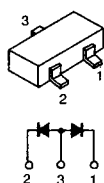
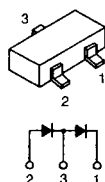
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2SC4834NP-F09

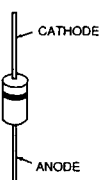


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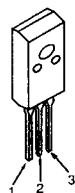
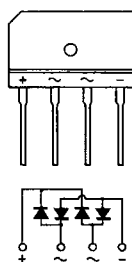
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DAN202K-T-146DAP202K
DAP202K-T-146DA204K
DA204K-T-146

D1NL20
D1NL20-TA
D1NL20-TR
EGP20G
EL1Z
GP08D
GP08DPKG23
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MTZJ-T-77-9.1A

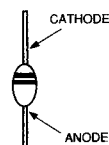
R2K-V1
RGP02-20EG23
RGP02-20EL-6394
RGP10GPKG23
RGP15GPKG23
S2LA20F
1SS133T-77
1SS83
1SS83TD



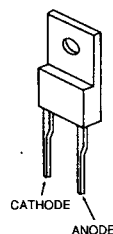
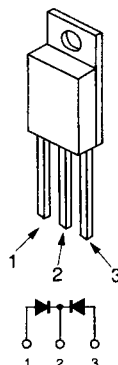
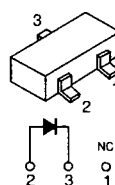
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D4SB60L
D4SB60L-F
RBA-402L

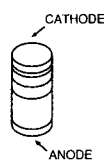
ERC38-06



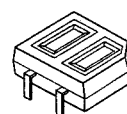
ERD08M-15

ESAD39M-06C
ESAD39M-06CF38MA3033-L
MA3033L-TX
MA3056M-TX

MA3051L-TX

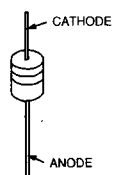
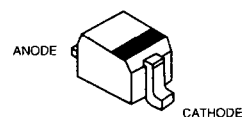
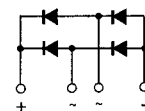
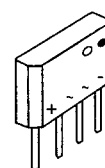


MA73-TX

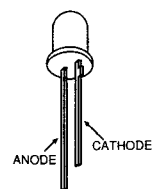


MTZJ-T-77-13B
MTZJ-T-77-15B
MTZJ-T-77-2.2A
MTZJ-T-77-33C
MTZJ-T-77-39C
MTZJ-T-77-5.6B
MTZJ-T-77-9.1B
MTZJ-13B

MTZJ-33C
MTZJ-39C
RD15ES-B2
RD5.6ESB2
RD9.1ESB2
1SS119-25
1SS119-25TD

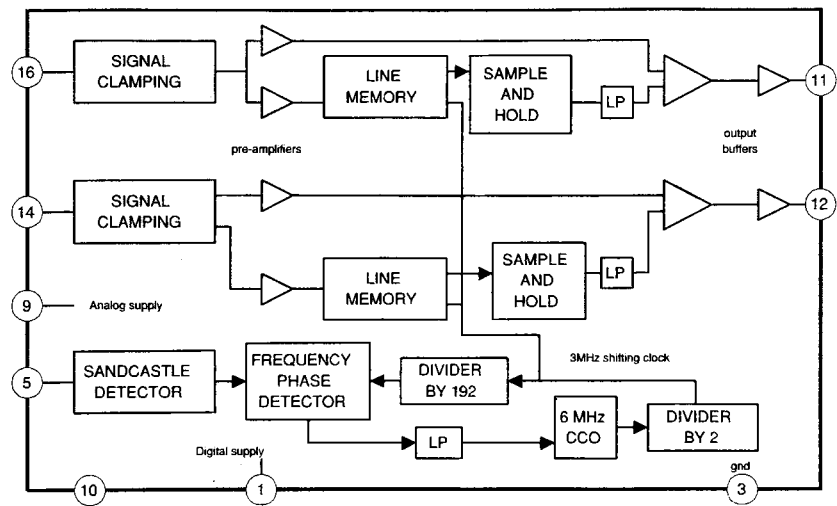
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UDZ-TE-17-12BS1VB20-S
S1VB40

SLA-570KT3F

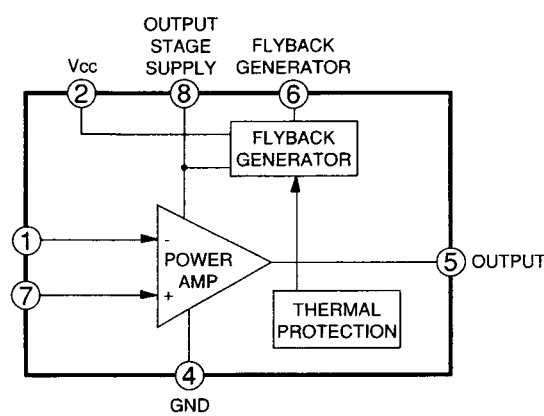


5-5. IC BLOCK DIAGRAMS

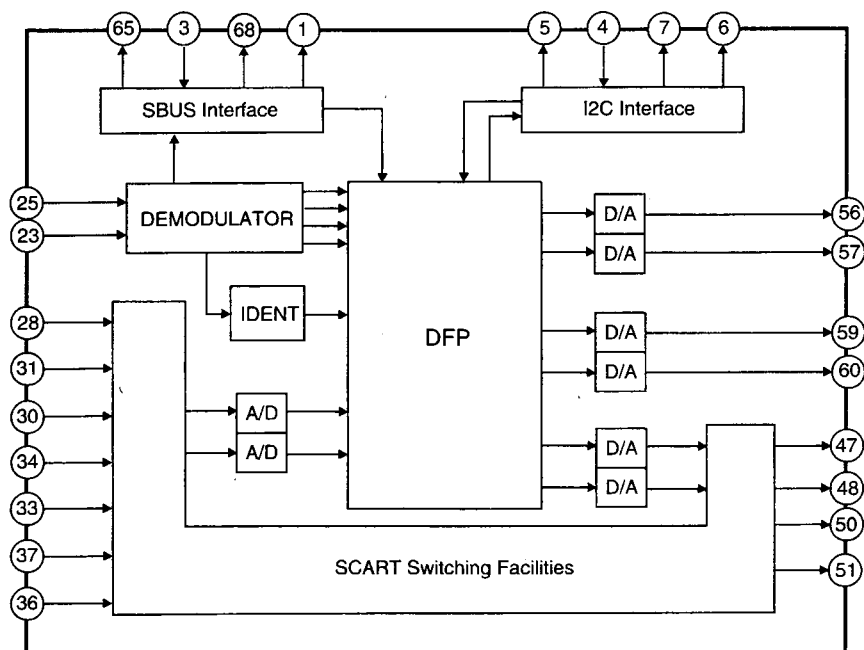
B Board IC3503,3602 TDA4665T-T



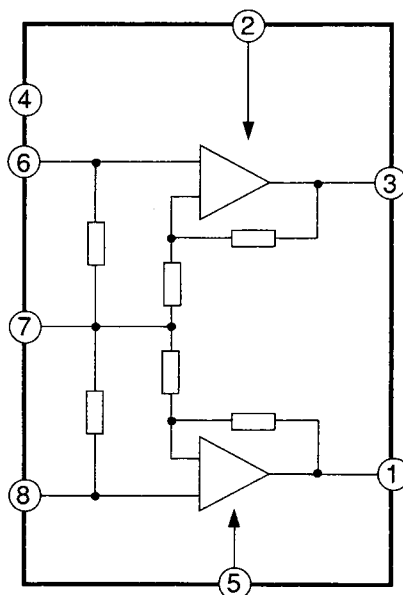
D Board IC502 STV9379



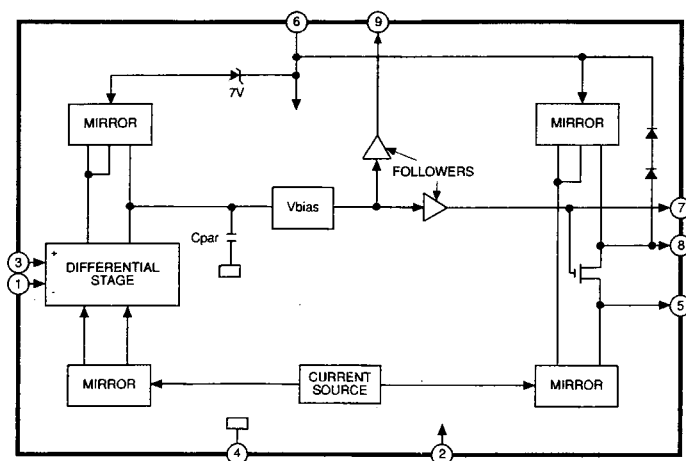
A Board IC201 MSP3410B-PS-B4-T



A Board IC20 TDA7265



C Board IC701,702,703 TDA6111Q/N4




SECTION 6


EXPLODED VIEWS

NOTE :

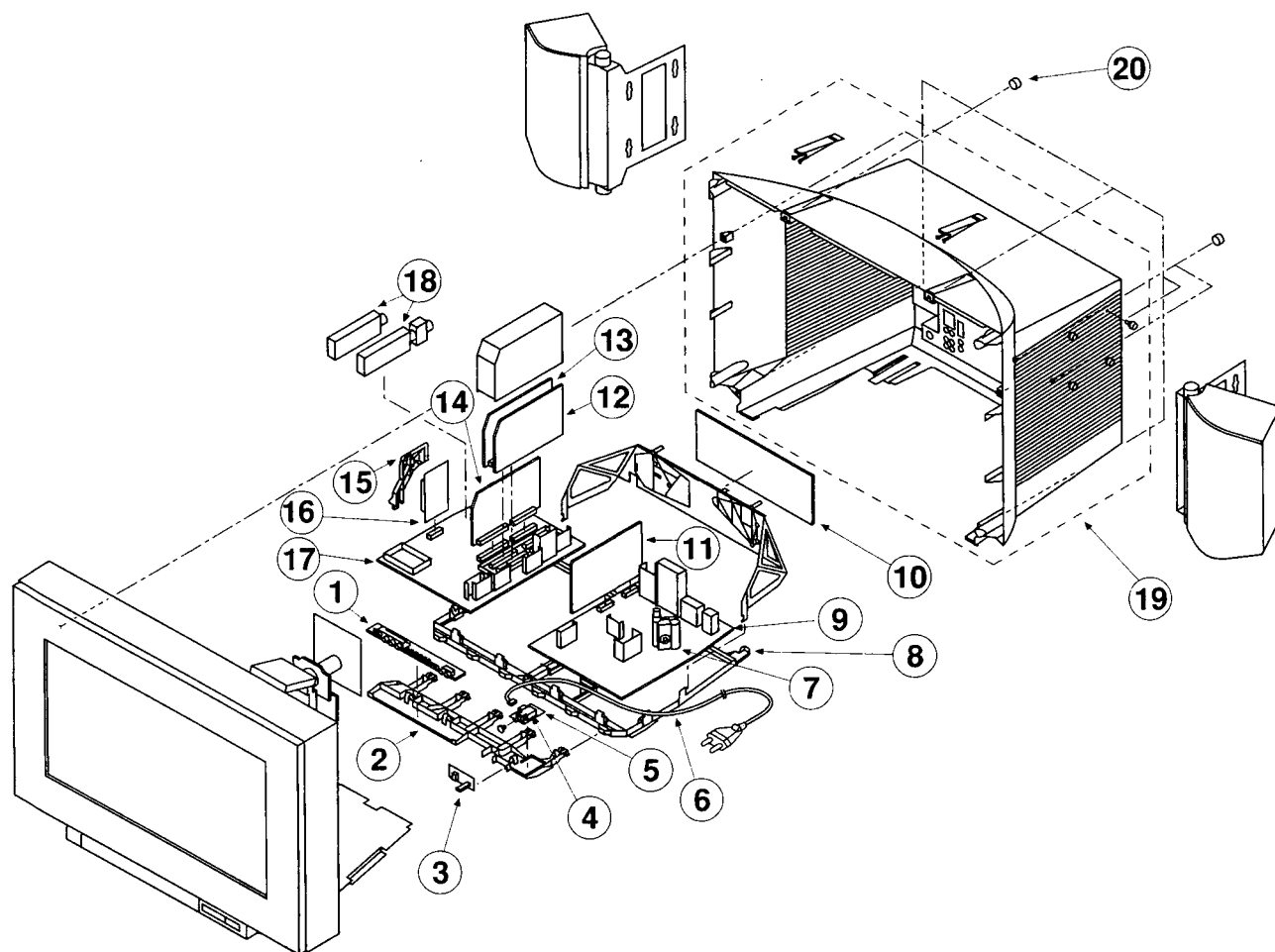
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked  are critical for safety.

Replace only with the part number specified.

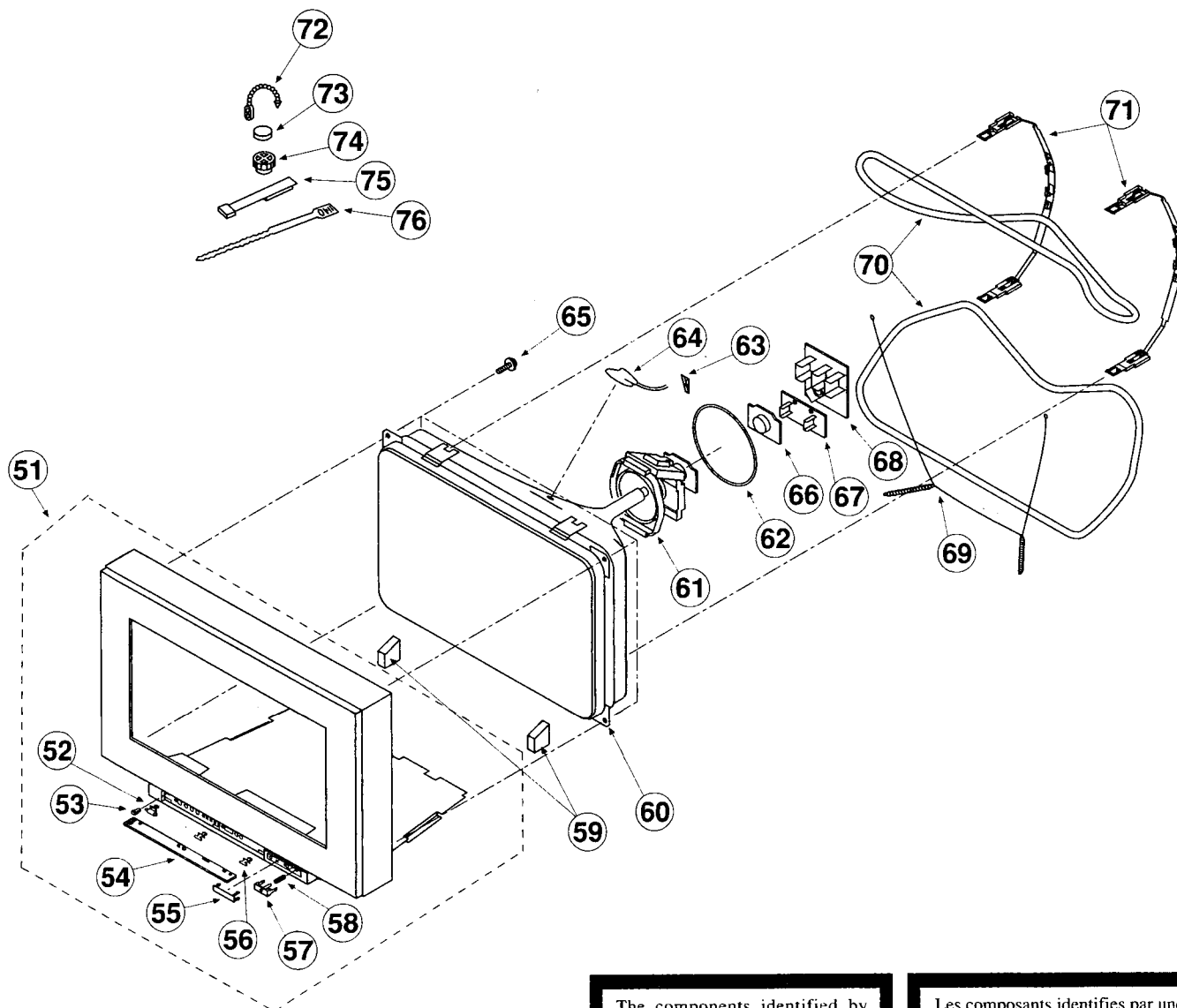
Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	A-1646-143-A	HI BOARD, COMPLETE		11	A-1640-280-A	D1 BOARD, COMPLETE (KV-28FD1E/28FD1K)	
2	4-203-776-01	BRACKET, H			A-1640-277-A	D1 BOARD, COMPLETE (KV-32FD1E/32FD1K)	
3	A-1646-144-A	H2 BOARD, COMPLETE		12	A-1620-094-A	B1 BOARD, COMPLETE	
4	1-571-433-21	SWITCH PUSH (AC POWER)		13	A-1626-013-A	Q BOARD, COMPLETE	
5	A-1624-062-A	F BOARD, COMPLETE		14	A-1620-095-A	B BOARD, COMPLETE	
6	1-751-680-11	CORD, POWER (WITH NOISE FILTER)		15	A-203-933-01	BRACKET, A1	
7	1-453-256-11	TRANSFORMER ASSY, FLYBACK (NX4125/U2B4)		16	A-1632-661-A	A1 BOARD, COMPLETE	
8	4-203-784-01	BRACKET, MAIN		17	A-1632-660-A	A BOARD, COMPLETE (KV-28FD1E/28FD1K)	
9	A-1640-279-A	D BOARD, COMPLETE (KV-28FD1E/28FD1K)			A-1632-699-A	A BOARD, COMPLETE (KV-32FD1E/32FD1K)	
	A-1640-278-A	D BOARD, COMPLETE (KV-32FD1E/32FD1K)		18	1-693-340-21	TUNER/VIF (AEP)	
10	A-1654-027-A	J BOARD, COMPLETE		19	X-4200-351-1	COVER ASSY, REAR	
				20	4-039-358-01	SCREW (4X16), +BV TAPPING	

6-2. PICTURE TUBE



The components identified by shading and marked Δ are critical for safety.

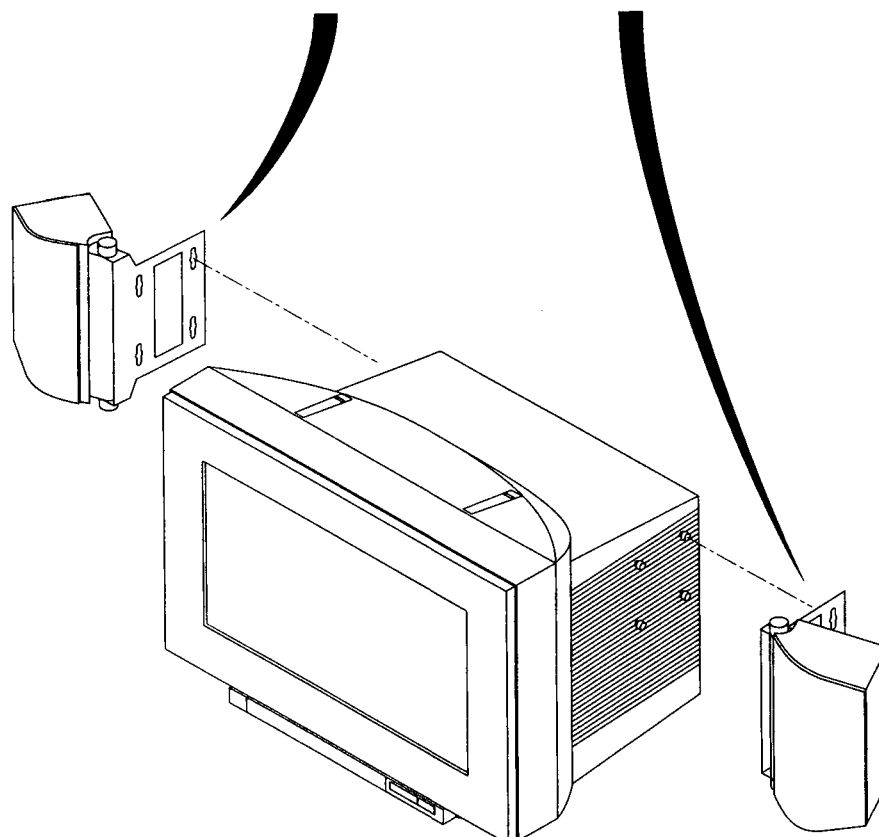
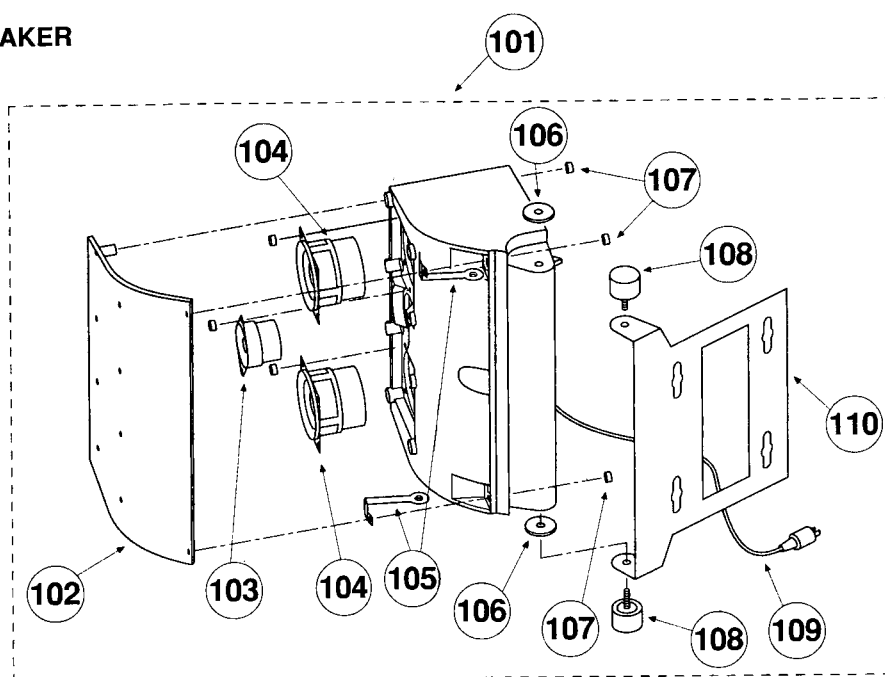
Replace only with the part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	X-4200-351-1	BEZNET ASSY	52-58	63	3-704-495-01	SPACER, DY	
52	4-045-250-11	DAMPER		64	1-251-317-31	CAP ASSY, HIGH VOLTAGE	
53	4-042-192-01	CATCHER PUSH		65	4-203-216-01	PT-SCREW	
54	X-4200-352-1	CONTROL DOOR ASSY		66	8-453-015-11	NECK ASSEMBLY (NA2913-M)	
55	4-203-781-01	WINDOW, ORNAMENTAL		67	A-1644-081-A	VM BOARD, COMPLETE	
56	4-202-555-01	SHAFT, DOOR		68	A-1638-110-A	C BOARD, COMPLETE	
57	4-203-780-01	BUTTON, POWER		69	4-369-318-51	SPRING TENSION	
58	4-202-964-01	SPRING		70	1-416-451-11	COIL DEGAUSSING (KV-28FD1E/28FD1K)	
59	4-203-098-01	SUPPORTER, CRT		71	4-416-450-11	COIL DEGAUSSING (KV-32FD1E/32FD1K)	
60	8-737-779-05	PICTURE TUBE (SD-299) (M66LLX010X)		72	4-057-303-01	HOLDER, DGC	(KV-28FD1E/28FD1K)
		(KV-28FD1E/28FD1K)			4-059-569-01	HOLDER, DGC	(KV-32FD1E/32FD1K)
	8-735-835-05	PICTURE TUBE (SD-302) (W76LLZ010X)		73	4-308-870-00	CLIP, LEAD WIRE	
		(KV-32FD1E/32FD1K)		74	1-452-032-00	MAGNET, DISK; 10MM Ø	
61	1-451-463-11	DEFLECTION YOKE (KV-28FD1E/28FD1K)		75	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
	1-451-462-11	DEFLECTION YOKE (Y32RYC)		76	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
		(KV-32FD1E/32FD1K)			3-701-007-00	BAND BINDING	
62	1-452-896-71	COIL, NA ROTATION (RT-200)					

6-3. BOX SPEAKER



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
101	A-1678-142-A	BOX ASSY, SPEAKER		106	4-203-945-01	SPACER	
102	X-4200-354-1	SPEAKER GRILLE ASSY		107	4-039-355-11	SCREW (4X12), (+) BV TAPPING	
103	1-505-790-11	SPEAKER (5CM)		108	4-907-747-01	SCREW, ORNAMENTAL	
104	1-505-791-11	SPEAKER (8CM)		109	1-782-856-11	CABLE, SPEAKER	
105	4-203-944-01	NUT, PLT		110	4-203-787-01	BRACKET, SPEAKER	

SECTION 7

ELECTRICAL PARTS LIST

When indicating parts by reference number, please include the board name.

CAPACITORS

MF : mF, PF : mmF

COILSMMH : mH, μ H : mH**B1**

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

The components identified by shading and marked **B1** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **B1** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1620-094-A	B1 BOARD, COMPLETE *****		C344	1-164-005-11	CERAMIC CHIP 0.47MF	16V
	< CAPACITOR >			C345	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C302	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C347	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C304	1-126-964-11	ELECT 10MF	20% 50V	C349	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C305	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	C350	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C306	1-163-229-11	CERAMIC CHIP 12PF	5% 50V				
C307	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C351	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C352	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C308	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C353	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C309	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C354	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C310	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C355	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C311	1-126-964-11	ELECT 10MF	20% 50V				
C312	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	C357	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
				C358	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C313	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C359	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C314	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C360	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C315	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C361	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C316	1-163-125-00	CERAMIC CHIP 220PF	5% 50V				
C317	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C362	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
				C363	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C318	1-126-963-11	ELECT 4.7MF	20% 50V	C364	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C319	1-107-905-11	ELECT 4.7MF	20% 50V	C365	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C320	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C366	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C321	1-163-121-00	CERAMIC CHIP 150PF	5% 50V				
C322	1-126-963-11	ELECT 4.7MF	20% 50V	C367	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
				C368	1-126-964-11	ELECT 10MF	20% 50V
C323	1-126-963-11	ELECT 4.7MF	20% 50V	C369	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C324	1-126-963-11	ELECT 4.7MF	20% 50V	C370	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C325	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C371	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C326	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V				
C327	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C372	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
				C373	1-107-906-11	ELECT 10MF	20% 50V
C328	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V	C374	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C329	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C375	1-107-903-11	ELECT 2.2MF	20% 50V
C330	1-107-905-11	ELECT 4.7MF	20% 50V	C376	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C331	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C332	1-162-638-11	CERAMIC CHIP 1MF	16V	C377	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C378	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C333	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C379	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C334	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C380	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C335	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C381	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C336	1-162-638-11	CERAMIC CHIP 1MF	16V				
C337	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C382	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C383	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C338	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C384	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C339	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C385	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C341	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C386	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C342	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C343	1-163-097-00	CERAMIC CHIP 15PF	5% 50V	C387	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C388	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C389	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C390	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C391	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C392	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C393	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C394	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C395	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C396	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C397	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C398	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C399	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C400	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
C401	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C402	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C403	1-126-964-11	ELECT 10MF	20% 50V
C404	1-126-964-11	ELECT 10MF	20% 50V
C405	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C406	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C407	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
C408	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C409	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C411	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C412	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C413	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V
C414	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C415	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C416	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C417	1-128-526-11	ELECT 100MF	20% 16V
C418	1-128-526-11	ELECT 100MF	20% 16V
C419	1-128-526-11	ELECT 100MF	20% 16V
C420	1-128-526-11	ELECT 100MF	20% 16V
C421	1-128-526-11	ELECT 100MF	20% 16V
C422	1-128-526-11	ELECT 100MF	20% 16V
C423	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C424	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C425	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C426	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C427	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C428	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C432	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V
C434	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C435	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
C436	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
< CONNECTOR >			
CN301	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
CN302	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
< DIODE >			
D301	8-719-914-42	DIODE DA204K	
< FERRITE BEAD >			
FB301	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB302	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB303	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB304	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB305	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB306	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB307	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB308	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB309	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB310	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB311	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB312	1-414-553-11	INDUCTOR 0UH	

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB313	1-414-553-11	INDUCTOR 0UH	
FB314	1-414-553-11	INDUCTOR 0UH	
FB315	1-414-553-11	INDUCTOR 0UH	
FB316	1-414-553-11	INDUCTOR 0UH	
FB317	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB318	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB319	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB320	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB321	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB322	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB323	1-216-295-00	CONDUCTOR, CHIP	
FB324	1-216-295-00	CONDUCTOR, CHIP	
FB325	1-216-295-00	CONDUCTOR, CHIP	
FB326	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB327	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB328	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB329	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB330	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB331	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB332	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB333	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB334	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB335	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB336	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB337	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB338	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB339	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB340	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB341	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB342	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB343	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB344	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB345	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB346	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB347	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB348	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB349	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB350	1-414-553-11	INDUCTOR 0UH	
FB351	1-216-295-00	CONDUCTOR, CHIP	
FB352	1-414-553-11	INDUCTOR 0UH	
FB353	1-414-553-11	INDUCTOR 0UH	
FB354	1-414-553-11	INDUCTOR 0UH	
FB355	1-414-553-11	INDUCTOR 0UH	
FB356	1-414-234-11	INDUCTOR, FERRITE BEAD	
< ENCAPSULATED FILTER >			
FL301	1-233-736-21	FILTER, EMI	
FL302	1-233-736-21	FILTER, EMI	
FL303	1-233-767-21	FILTER	
FL304	1-233-736-21	FILTER, EMI	
FL305	1-415-940-21	DELAY LINE	
FL306	1-233-736-21	FILTER, EMI	
FL307	1-233-736-21	FILTER, EMI	
< IC >			
IC301	8-759-991-41	IC LM78L05ACZ	
IC302	8-759-991-41	IC LM78L05ACZ	
IC303	8-759-426-57	IC 74HCT4046AD	
IC304	8-759-257-59	IC TDA8755T-T	
IC305	8-759-257-59	IC TDA8755T-T	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
IC307	8-759-295-09	IC TLC2932IPW	
IC308	8-759-476-31	IC CXD8626AQ	
IC309	8-759-438-64	IC SAAA952WP/V1	
IC310	8-759-295-09	IC TLC2932IPW	
IC311	8-759-439-25	IC TMS4C2972-26DTR	

IC312	8-759-991-41	IC LM78L05ACZ	
IC313	8-759-439-64	IC HEF4053BT	
IC314	8-759-439-64	IC HEF4053BT	
IC315	8-759-439-64	IC HEF4053BT	
IC316	8-759-439-64	IC HEF4053BT	

IC317	8-759-470-61	IC P83C654EBA/565	
IC318	8-759-438-33	IC 74LVC08D	
IC319	8-759-439-62	IC SAAA990H/V2	
IC320	8-759-439-64	IC HEF4053BT	
IC321	8-759-439-64	IC HEF4053BT	

IC322	8-759-991-41	IC LM78L05ACZ	
IC323	8-759-439-25	IC TMS4C2972-26DTR	
IC324	8-759-467-19	IC SDA9280B22	
IC325	8-759-439-64	IC HEF4053BT	
IC326	8-759-393-55	IC MC74F244MEL	

IC327	8-759-393-55	IC MC74F244MEL	
IC328	8-759-032-14	IC MC74HC08AF	

< COIL >

L301	1-408-403-00	INDUCTOR	3.3UH
L302	1-412-532-11	INDUCTOR	39UH
L303	1-410-435-21	INDUCTOR	220UH
L304	1-410-435-21	INDUCTOR	220UH
L305	1-408-789-21	INDUCTOR CHIP	100UH

L306	1-412-029-11	INDUCTOR CHIP	10UH
L307	1-412-029-11	INDUCTOR CHIP	10UH
L308	1-408-789-21	INDUCTOR CHIP	100UH
L309	1-408-409-00	INDUCTOR	10UH
L310	1-412-029-11	INDUCTOR CHIP	10UH

L311	1-412-029-11	INDUCTOR CHIP	10UH
L312	1-412-029-11	INDUCTOR CHIP	10UH
L313	1-412-029-11	INDUCTOR CHIP	10UH
L314	1-412-029-11	INDUCTOR CHIP	10UH
L315	1-412-029-11	INDUCTOR CHIP	10UH

L316	1-412-029-11	INDUCTOR CHIP	10UH
L317	1-412-029-11	INDUCTOR CHIP	10UH
L318	1-408-416-00	INDUCTOR	39UH
L319	1-408-416-00	INDUCTOR	39UH

< TRANSISTOR >

Q301	8-729-216-22	TRANSISTOR 2SA1162-G	
Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q303	8-729-900-53	TRANSISTOR DTC114EK	
Q304	1-801-806-11	TRANSISTOR DTC144EKA	
Q305	1-801-806-11	TRANSISTOR DTC144EKA	

Q306	1-801-806-11	TRANSISTOR DTC144EKA	
Q307	1-801-806-11	TRANSISTOR DTC144EKA	
Q308	8-729-216-22	TRANSISTOR 2SA1162-G	
Q309	8-729-216-22	TRANSISTOR 2SA1162-G	
Q310	8-729-216-22	TRANSISTOR 2SA1162-G	

Q311	1-801-806-11	TRANSISTOR DTC144EKA	
Q312	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q313	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q314	8-729-620-06	TRANSISTOR 2SC3052-EF	

REF.NO.	PART NO.	DESCRIPTION	REMARK
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< RESISTOR >

JR3103	1-216-295-00	CONDUCTOR, CHIP	
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R301	1-216-051-00	METAL GLAZE	1.2K 5%	1/10W
R302	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R303	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W
R304	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R305	1-216-053-00	METAL GLAZE	1.5K 5%	1/10W

R306	1-216-051-00	METAL GLAZE	1.2K 5%	1/10W
R307	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R308	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
R309	1-216-053-00	METAL GLAZE	1.5K 5%	1/10W
R310	1-216-051-00	METAL GLAZE	1.2K 5%	1/10W

R311	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
R312	1-216-075-00	METAL GLAZE	12K 5%	1/10W
R313	1-216-051-00	METAL GLAZE	1.2K 5%	1/10W
R314	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R315	1-216-067-00	METAL GLAZE	5.6K 5%	1/10W

R316	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R317	1-216-041-00	METAL GLAZE	470 5%	1/10W
R318	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R319	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R320	1-216-049-00	METAL GLAZE	1K 5%	1/10W

R321	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R322	1-216-048-91	METAL GLAZE	910 5%	1/10W
R323	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R324	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R325	1-216-049-00	METAL GLAZE	1K 5%	1/10W

R326	1-216-075-00	METAL GLAZE	12K 5%	1/10W
R328	1-216-079-00	METAL GLAZE	18K 5%	1/10W
R329	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R330	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R331	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W

R332	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R333	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R334	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R335	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R336	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W

R337	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R338	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R339	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R340	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R341	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W

R342	1-216-047-91	METAL GLAZE	820 5%	1/10W
R343	1-216-037-00	METAL GLAZE	330 5%	1/10W
R344	1-216-025-00	METAL GLAZE	100 5%	1/10W
R345	1-216-025-00	METAL GLAZE	100 5%	1/10W
R346	1-216-115-00	METAL GLAZE	560K 5%	1/10W

R348	1-216-295-00	CONDUCTOR, CHIP		
R349	1-216-029-00	METAL GLAZE	150 5%	1/10W
R350	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W
R351	1-216-113-00	METAL GLAZE	470K 5%	1/10W
R352	1-216-073-00	METAL GLAZE	10K 5%	1/10W

R353	1-216-047-91	METAL GLAZE	820 5%	1/10W
R354	1-216-295-00	CONDUCTOR, CHIP		
R355	1-216-073-00	METAL GLAZE	10K 5%	1/10W
R356	1-216-073-00	METAL GLAZE	10K 5%	1/10W
R357	1-216-073-00	METAL GLAZE	10K 5%	1/10W

R358	1-216-073-00	METAL GLAZE	10K 5%	1/10W
R359	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W
R362	1-216-105-91	METAL GLAZE	220K 5%	1/10W

B1	B
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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R363	1-216-025-00	METAL GLAZE 100 5%	1/10W	R428	1-216-009-00	METAL GLAZE 22 5%	1/10W
R365	1-216-001-00	METAL GLAZE 10 5%	1/10W	R429	1-216-009-00	METAL GLAZE 22 5%	1/10W
R366	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R430	1-216-017-91	METAL GLAZE 47 5%	1/10W
R367	1-216-295-00	CONDUCTOR, CHIP		R431	1-216-017-91	METAL GLAZE 47 5%	1/10W
R368	1-216-085-00	METAL GLAZE 33K 5%	1/10W				
R369	1-216-001-00	METAL GLAZE 10 5%	1/10W	R432	1-216-017-91	METAL GLAZE 47 5%	1/10W
R370	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R433	1-216-295-00	CONDUCTOR, CHIP	
R371	1-216-295-00	CONDUCTOR, CHIP		R434	1-216-295-00	CONDUCTOR, CHIP	
R372	1-216-027-00	METAL GLAZE 120 5%	1/10W	R435	1-216-295-00	CONDUCTOR, CHIP	
R373	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R436	1-216-295-00	CONDUCTOR, CHIP	
R374	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R437	1-216-295-00	CONDUCTOR, CHIP	
R375	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R438	1-216-295-00	CONDUCTOR, CHIP	
R376	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R439	1-216-295-00	CONDUCTOR, CHIP	
R377	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R440	1-216-295-00	CONDUCTOR, CHIP	
R378	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R441	1-216-295-00	CONDUCTOR, CHIP	
R379	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R442	1-216-295-00	CONDUCTOR, CHIP	
R380	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R443	1-216-295-00	CONDUCTOR, CHIP	
R381	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R444	1-216-295-00	CONDUCTOR, CHIP	
R382	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R445	1-216-009-00	METAL GLAZE 22 5%	1/10W
R383	1-216-076-00	METAL GLAZE 13K 5%	1/10W	R446	1-216-009-00	METAL GLAZE 22 5%	1/10W
R384	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W	R447	1-216-009-00	METAL GLAZE 22 5%	1/10W
R385	1-216-013-00	METAL GLAZE 33 5%	1/10W	R448	1-216-009-00	METAL GLAZE 22 5%	1/10W
R386	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R449	1-216-009-00	METAL GLAZE 22 5%	1/10W
R388	1-216-029-00	METAL GLAZE 150 5%	1/10W	R450	1-216-009-00	METAL GLAZE 22 5%	1/10W
R389	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R451	1-216-009-00	METAL GLAZE 22 5%	1/10W
R390	1-216-013-00	METAL GLAZE 33 5%	1/10W	R456	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R391	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W	R457	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R393	1-216-037-00	METAL GLAZE 330 5%	1/10W	R458	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R394	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R461	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R395	1-216-027-00	METAL GLAZE 120 5%	1/10W	R462	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R396	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	R465	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R397	1-216-295-00	CONDUCTOR, CHIP		R466	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R398	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R467	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R399	1-216-039-00	METAL GLAZE 390 5%	1/10W	R468	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R400	1-216-039-00	METAL GLAZE 390 5%	1/10W	R469	1-216-001-00	METAL GLAZE 10 5%	1/10W
R401	1-216-039-00	METAL GLAZE 390 5%	1/10W	< CRYSTAL >			
R402	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	X301	1-579-175-11	VIBRATOR, CERAMIC	
R403	1-216-049-00	METAL GLAZE 1K 5%	1/10W	*****			
R404	1-216-039-00	METAL GLAZE 390 5%	1/10W	*A-1620-095-A B BOARD, COMPLETE			
R405	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	*****			
R406	1-216-295-00	CONDUCTOR, CHIP		< CAPACITOR >			
R407	1-216-022-00	METAL GLAZE 75 5%	1/10W	C3301	1-126-963-11	ELECT 4.7MF 20%	50V
R408	1-216-022-00	METAL GLAZE 75 5%	1/10W	C3302	1-126-963-11	ELECT 4.7MF 20%	50V
R409	1-216-022-00	METAL GLAZE 75 5%	1/10W	C3303	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
R410	1-216-295-00	CONDUCTOR, CHIP		C3304	1-164-506-11	CERAMIC CHIP 4.7MF 16V	
R411	1-216-025-00	METAL GLAZE 100 5%	1/10W	C3305	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
R413	1-216-001-00	METAL GLAZE 10 5%	1/10W	C3306	1-164-346-11	CERAMIC CHIP 1MF 16V	
R414	1-216-001-00	METAL GLAZE 10 5%	1/10W	C3307	1-164-004-11	CERAMIC CHIP 0.1MF 25V	
R415	1-216-001-00	METAL GLAZE 10 5%	1/10W	C3308	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
R416	1-216-001-00	METAL GLAZE 10 5%	1/10W	C3309	1-163-037-11	CERAMIC CHIP 0.022MF 10%	50V
R417	1-216-001-00	METAL GLAZE 10 5%	1/10W	C3310	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
R418	1-216-001-00	METAL GLAZE 10 5%	1/10W	C3311	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
R419	1-216-001-00	METAL GLAZE 10 5%	1/10W	C3312	1-163-235-11	CERAMIC CHIP 22PF 5%	50V
R420	1-216-001-00	METAL GLAZE 10 5%	1/10W	C3313	1-163-235-11	CERAMIC CHIP 22PF 5%	50V
R421	1-216-001-00	METAL GLAZE 10 5%	1/10W	C3315	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V
R422	1-216-001-00	METAL GLAZE 10 5%	1/10W	C3316	1-164-506-11	CERAMIC CHIP 4.7MF 16V	
R423	1-216-001-00	METAL GLAZE 10 5%	1/10W	C3401	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
R424	1-216-001-00	METAL GLAZE 10 5%	1/10W	C3402	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
R425	1-216-025-00	METAL GLAZE 100 5%	1/10W	C3403	1-126-963-11	ELECT 4.7MF 20%	50V
R426	1-216-025-00	METAL GLAZE 100 5%	1/10W				
R427	1-216-009-00	METAL GLAZE 22 5%	1/10W				

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C3404	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3405	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V
C3406	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C3407	1-126-965-11	ELECT 22MF	20% 50V
C3408	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3410	1-126-933-11	ELECT 100MF	20% 10V
C3411	1-126-963-11	ELECT 4.7MF	20% 50V
C3412	1-126-963-11	ELECT 4.7MF	20% 50V
C3413	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C3414	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C3415	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3416	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3418	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3420	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3421	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3422	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3423	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3424	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3425	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3426	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3427	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3428	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3429	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3430	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3431	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3432	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3433	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3434	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3435	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3450	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C3460	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C3461	1-126-966-11	ELECT 33MF	20% 16V
C3462	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3463	1-126-964-11	ELECT 10MF	20% 50V
C3502	1-126-963-11	ELECT 4.7MF	20% 50V
C3513	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3518	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C3519	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C3520	1-165-320-11	CERAMIC CHIP 0.47MF	10% 16V
C3521	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C3522	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C3523	1-126-963-11	ELECT 4.7MF	20% 50V
C3546	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C3547	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C3550	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C3551	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C3555	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C3556	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C3601	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3602	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C3603	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C3604	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C3607	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3608	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C3609	1-165-320-11	CERAMIC CHIP 0.47MF	10% 16V
C3619	1-126-963-11	ELECT 4.7MF	20% 50V
C3620	1-126-963-11	ELECT 4.7MF	20% 50V
C3621	1-126-963-11	ELECT 4.7MF	20% 50V
C3622	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3702	1-126-933-11	ELECT 100MF	20% 16V
C3704	1-126-933-11	ELECT 100MF	20% 16V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C3705	1-126-933-11	ELECT 100MF	20% 16V
C3706	1-126-933-11	ELECT 100MF	20% 16V
C3708	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3711	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C3712	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C3713	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3714	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3715	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V
C3716	1-126-933-11	ELECT 100MF	20% 16V
C3717	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V
C3724	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V
C3725	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V
C3726	1-126-933-11	ELECT 100MF	20% 16V
C3727	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3728	1-126-933-11	ELECT 100MF	20% 16V
C3730	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3731	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3733	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3734	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3735	1-126-933-11	ELECT 100MF	20% 16V
C3744	1-126-933-11	ELECT 100MF	20% 16V
C3745	1-126-933-11	ELECT 100MF	20% 16V
C3746	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3747	1-126-964-11	ELECT 10MF	20% 50V
C3754	1-126-964-11	ELECT 10MF	20% 50V
C3755	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3756	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3758	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3760	1-126-933-11	ELECT 100MF	20% 16V
C3761	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3762	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3763	1-126-964-11	ELECT 10MF	20% 50V
C3767	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3768	1-164-346-11	CERAMIC CHIP 1MF	16V
C3769	1-164-346-11	CERAMIC CHIP 1MF	16V
C3770	1-164-346-11	CERAMIC CHIP 1MF	16V
C3771	1-126-964-11	ELECT 10MF	20% 50V
C3772	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3775	1-126-933-11	ELECT 100MF	20% 16V
C3776	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3777	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3778	1-126-933-11	ELECT 100MF	20% 16V
C3779	1-126-933-11	ELECT 100MF	20% 16V
C3787	1-126-933-11	ELECT 100MF	20% 16V
C3789	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3792	1-126-933-11	ELECT 100MF	20% 16V
C3793	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3794	1-126-933-11	ELECT 100MF	20% 16V
C3795	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3805	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3806	1-126-933-11	ELECT 100MF	20% 16V
C3807	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3808	1-126-933-11	ELECT 100MF	20% 16V
C3809	1-126-933-11	ELECT 100MF	20% 16V
C3810	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3811	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3812	1-126-933-11	ELECT 100MF	20% 16V
C3813	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3814	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3815	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C3817	1-126-933-11	ELECT 100MF	20% 16V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C3819	1-126-933-11	ELECT 100MF	20% 16V
C3823	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3824	1-126-933-11	ELECT 100MF	20% 16V
C3825	1-126-933-11	ELECT 100MF	20% 16V
C3826	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V

< CONNECTOR >

CN3701	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
CN3702	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	

< DIODE >

D3501	8-719-401-41	DIODE MA3051L-TX	
D3601	8-719-401-41	DIODE MA3051L-TX	

< FERRITE BEAD >

FB3701	1-216-295-00	CONDUCTOR, CHIP	
FB3702	1-216-295-00	CONDUCTOR, CHIP	
FB3703	1-216-295-00	CONDUCTOR, CHIP	
FB3704	1-216-295-00	CONDUCTOR, CHIP	
FB3705	1-216-295-00	CONDUCTOR, CHIP	

FB3706	1-216-295-00	CONDUCTOR, CHIP	
FB3707	1-216-295-00	CONDUCTOR, CHIP	
FB3708	1-216-295-00	CONDUCTOR, CHIP	
FB3709	1-216-295-00	CONDUCTOR, CHIP	
FB3710	1-216-295-00	CONDUCTOR, CHIP	

FB3711	1-216-295-00	CONDUCTOR, CHIP	
FB3712	1-216-295-00	CONDUCTOR, CHIP	
FB3713	1-216-295-00	CONDUCTOR, CHIP	
FB3714	1-216-295-00	CONDUCTOR, CHIP	
FB3715	1-216-295-00	CONDUCTOR, CHIP	

FB3716	1-216-295-00	CONDUCTOR, CHIP	
FB3717	1-216-295-00	CONDUCTOR, CHIP	
FB3718	1-216-295-00	CONDUCTOR, CHIP	
FB3719	1-216-295-00	CONDUCTOR, CHIP	
FB3720	1-216-295-00	CONDUCTOR, CHIP	

FB3721	1-216-295-00	CONDUCTOR, CHIP	
FB3722	1-216-295-00	CONDUCTOR, CHIP	
FB3723	1-216-295-00	CONDUCTOR, CHIP	
FB3724	1-216-295-00	CONDUCTOR, CHIP	

< ENCAPSULATED FILTER >

FL3301	1-236-071-11	ENCAPSULATED COMPONENT	
FL3302	1-236-071-11	ENCAPSULATED COMPONENT	
FL3401	1-236-071-11	ENCAPSULATED COMPONENT	
FL3402	1-236-071-11	ENCAPSULATED COMPONENT	
FL3403	1-236-071-11	ENCAPSULATED COMPONENT	

FL3404	1-233-766-21	FILTER	
FL3405	1-233-768-21	FILTER (SMD)	
FL3406	1-236-071-11	ENCAPSULATED COMPONENT	
FL3410	1-233-765-21	FILTER	
FL3502	1-236-071-11	ENCAPSULATED COMPONENT	

FL3602	1-236-071-11	ENCAPSULATED COMPONENT	
FL3701	1-233-446-11	FILTER, LOW PASS	
FL3702	1-233-446-11	FILTER, LOW PASS	
FL3703	1-233-446-11	FILTER, LOW PASS	
FL3704	1-235-096-00	FILTER, LINE	

FL3705	1-235-096-00	FILTER, LINE	
FL3706	1-235-096-00	FILTER, LINE	
FL3707	1-235-096-00	FILTER, LINE	

REF.NO.	PART NO.	DESCRIPTION	REMARK
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< IC >

IC3301	8-752-383-01	IC CXD2053AS	
IC3401	8-752-379-35	IC CXD2044Q-TL	
IC3402	8-759-711-62	IC NJM2240M	
IC3403	8-759-385-76	IC MC14052BDR2	
IC3502	8-759-447-67	IC TDA9144/N1	

IC3503	8-759-288-85	IC TDA4665T-T	
IC3601	8-759-447-68	IC TDA9143/N1	
IC3602	8-759-288-85	IC TDA4665T-T	
IC3702	8-759-295-09	IC TLC2932IPW	
IC3703	8-759-295-09	IC TLC2932IPW	

IC3704	8-759-478-46	IC MSM548332-25TS-K	
IC3705	8-759-271-88	IC TC7SHU04FU	
IC3706	8-759-480-00	IC CXD2072Q	
IC3707	8-752-388-97	IC CXD2303Q-TL	
IC3708	8-759-478-46	IC MSM548332-25TS-K	

IC3709	8-759-485-79	IC TC7SET08FU-TE85L	
IC3710	8-759-485-79	IC TC7SET08FU-TE85L	
IC3711	8-759-478-92	IC TC7SET04FU(TE85R)	
IC3712	8-759-991-41	IC L78L05ACZ	
IC3713	8-759-991-41	IC L78L05ACZ	

IC3715	8-759-478-92	IC TC7SET04FU(TE85R)	
IC3716	8-759-478-92	IC TC7SET04FU(TE85R)	
IC3717	8-759-485-79	IC TC7SET08FU-TE85L	
IC3718	8-759-485-79	IC TC7SET08FU-TE85L	

< COIL >

L3705	1-412-029-11	INDUCTOR CHIP 10UH	
L3706	1-412-029-11	INDUCTOR CHIP 10UH	
L3707	1-412-029-11	INDUCTOR CHIP 10UH	
L3709	1-412-029-11	INDUCTOR CHIP 10UH	
L3710	1-412-029-11	INDUCTOR CHIP 10UH	

L3711	1-412-029-11	INDUCTOR CHIP 10UH	
L3712	1-412-029-11	INDUCTOR CHIP 10UH	
L3713	1-412-029-11	INDUCTOR CHIP 10UH	
L3714	1-412-029-11	INDUCTOR CHIP 10UH	
L3715	1-412-029-11	INDUCTOR CHIP 10UH	

L3716	1-412-029-11	INDUCTOR CHIP 10UH	
L3717	1-412-029-11	INDUCTOR CHIP 10UH	
L3718	1-412-029-11	INDUCTOR CHIP 10UH	
L3719	1-412-029-11	INDUCTOR CHIP 10UH	
L3720	1-412-029-11	INDUCTOR CHIP 10UH	

L3721	1-408-417-00	INDUCTOR 47UH	
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< TRANSISTOR >


Q3301	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q3305	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q3401	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3402	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3403	8-729-216-22	TRANSISTOR 2SA1162-G	


Q3404	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3405	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3406	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3407	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q3408	8-729-620-06	TRANSISTOR 2SC3052-EF	

Q3409	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3410	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3411	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q3412	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q3413	8-729-216-22	TRANSISTOR 2SA1162-G	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q3414	8-729-620-06	TRANSISTOR 2SC3052-EF		R3406	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
Q3415	8-729-216-22	TRANSISTOR 2SA1162-G		R3407	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
Q3416	8-729-216-22	TRANSISTOR 2SA1162-G		R3408	1-216-017-91	METAL GLAZE 47 5%	1/10W
Q3417	8-729-620-06	TRANSISTOR 2SC3052-EF		R3409	1-216-017-91	METAL GLAZE 47 5%	1/10W
Q3418	8-729-620-06	TRANSISTOR 2SC3052-EF					
Q3501	8-729-620-06	TRANSISTOR 2SC3052-EF		R3410	1-216-039-00	METAL GLAZE 390 5%	1/10W
Q3502	8-729-620-06	TRANSISTOR 2SC3052-EF		R3411	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
Q3515	8-729-038-96	TRANSISTOR IMZ1A-T109		R3419	1-216-043-91	METAL GLAZE 560 5%	1/10W
Q3516	8-729-038-96	TRANSISTOR IMZ1A-T109		R3420	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
Q3517	8-729-038-96	TRANSISTOR IMZ1A-T109		R3421	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q3521	8-729-620-06	TRANSISTOR 2SC3052-EF		R3425	1-216-009-00	METAL GLAZE 22 5%	1/10W
Q3522	8-729-620-06	TRANSISTOR 2SC3052-EF		R3430	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
Q3523	8-729-216-22	TRANSISTOR 2SA1162-G		R3431	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
Q3524	8-729-216-22	TRANSISTOR 2SA1162-G		R3432	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
Q3525	8-729-216-22	TRANSISTOR 2SA1162-G		R3433	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
Q3526	8-729-620-06	TRANSISTOR 2SC3052-EF		R3434	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q3527	8-729-620-06	TRANSISTOR 2SC3052-EF		R3435	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q3528	8-729-620-06	TRANSISTOR 2SC3052-EF		R3436	1-216-653-11	METAL CHIP 1.2K 0.50%	1/10W
Q3601	8-729-038-96	TRANSISTOR IMZ1A-T109		R3437	1-216-666-11	METAL CHIP 4.3K 0.50%	1/10W
Q3602	8-729-038-96	TRANSISTOR IMZ1A-T109		R3438	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q3603	8-729-038-96	TRANSISTOR IMZ1A-T109		R3439	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q3604	8-729-620-06	TRANSISTOR 2SC3052-EF		R3440	1-216-037-00	METAL GLAZE 330 5%	1/10W
Q3605	8-729-027-59	TRANSISTOR DTC144EKA-T146		R3441	1-216-017-91	METAL GLAZE 47 5%	1/10W
Q3611	8-729-620-06	TRANSISTOR 2SC3052-EF		R3442	1-216-017-91	METAL GLAZE 47 5%	1/10W
Q3612	8-729-620-06	TRANSISTOR 2SC3052-EF		R3444	1-216-037-00	METAL GLAZE 330 5%	1/10W
Q3701	8-729-216-22	TRANSISTOR 2SA1162-G		R3446	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
Q3702	8-729-216-22	TRANSISTOR 2SA1162-G		R3447	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q3703	8-729-216-22	TRANSISTOR 2SA1162-G		R3448	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q3704	8-729-216-22	TRANSISTOR 2SA1162-G		R3449	1-216-125-00	METAL GLAZE 1.5M 5%	1/10W
Q3705	8-729-216-22	TRANSISTOR 2SA1162-G		R3450	1-216-017-91	METAL GLAZE 47 5%	1/10W
Q3706	8-729-216-22	TRANSISTOR 2SA1162-G		R3451	1-216-047-91	METAL GLAZE 820 5%	1/10W
< RESISTOR >				R3452	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
JR3439	1-216-295-00	CONDUCTOR, CHIP		R3453	1-216-047-91	METAL GLAZE 820 5%	1/10W
JR3440	1-216-295-00	CONDUCTOR, CHIP		R3454	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
JR3504	1-216-295-00	CONDUCTOR, CHIP		R3461	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
JR3505	1-216-295-00	CONDUCTOR, CHIP		R3462	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
JR3601	1-216-295-00	CONDUCTOR, CHIP		R3464	1-216-045-91	METAL GLAZE 680 5%	1/10W
JR3602	1-216-295-00	CONDUCTOR, CHIP		R3465	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3301	1-216-025-00	METAL GLAZE 100 5%	1/10W	R3467	1-216-045-91	METAL GLAZE 680 5%	1/10W
R3302	1-216-025-00	METAL GLAZE 100 5%	1/10W	R3468	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3303	1-216-025-00	METAL GLAZE 100 5%	1/10W	R3469	1-216-091-91	METAL GLAZE 56K 5%	1/10W
R3304	1-216-025-00	METAL GLAZE 100 5%	1/10W	R3470	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R3305	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R3471	1-216-091-91	METAL GLAZE 56K 5%	1/10W
R3306	1-216-001-00	METAL GLAZE 10 5%	1/10W	R3472	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R3307	1-216-025-00	METAL GLAZE 100 5%	1/10W	R3508	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3308	1-216-013-00	METAL GLAZE 33 5%	1/10W	R3511	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R3309	1-216-005-00	METAL GLAZE 15 5%	1/10W	R3512	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R3310	1-216-025-00	METAL GLAZE 100 5%	1/10W	R3513	1-216-025-00	METAL GLAZE 100 5%	1/10W
R3311	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R3514	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3312	1-216-025-00	METAL GLAZE 100 5%	1/10W	R3517	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3313	1-216-025-00	METAL GLAZE 100 5%	1/10W	R3521	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3315	1-216-009-00	METAL GLAZE 22 5%	1/10W	R3522	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3316	1-216-025-00	METAL GLAZE 100 5%	1/10W	R3523	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3317	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R3530	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3401	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R3531	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3402	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R3532	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3403	1-216-037-00	METAL GLAZE 330 5%	1/10W	R3533	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3404	1-216-037-00	METAL GLAZE 330 5%	1/10W	R3534	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3405	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R3535	1-216-041-00	METAL GLAZE 470 5%	1/10W
				R3536	1-216-041-00	METAL GLAZE 470 5%	1/10W
				R3537	1-216-041-00	METAL GLAZE 470 5%	1/10W
				R3538	1-216-041-00	METAL GLAZE 470 5%	1/10W

The components identified by shading and marked  are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

KV-28FD1/32FD1

B **F**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3540	1-216-017-91	METAL GLAZE	47 5% 1/10W	R3723	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R3541	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3728	1-216-607-11	METAL CHIP	15 0.50% 1/10W
R3542	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3729	1-216-607-11	METAL CHIP	15 0.50% 1/10W
R3545	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3730	1-216-013-00	METAL GLAZE	33 5% 1/10W
R3546	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3731	1-216-013-00	METAL GLAZE	33 5% 1/10W
R3551	1-216-037-00	METAL GLAZE	330 5% 1/10W	R3734	1-216-639-11	METAL CHIP	330 0.50% 1/10W
R3552	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3735	1-216-627-11	METAL CHIP	100 0.50% 1/10W
R3577	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3736	1-216-627-11	METAL CHIP	100 0.50% 1/10W
R3578	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3737	1-216-625-11	METAL CHIP	82 0.50% 1/10W
R3579	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3738	1-216-013-00	METAL GLAZE	33 5% 1/10W
R3580	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3739	1-216-633-11	METAL CHIP	180 0.50% 1/10W
R3581	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3740	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R3582	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3741	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R3583	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3742	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R3584	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3743	1-216-633-11	METAL CHIP	180 0.50% 1/10W
R3585	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3744	1-216-633-11	METAL CHIP	180 0.50% 1/10W
R3601	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R3745	1-216-033-00	METAL GLAZE	220 5% 1/10W
R3602	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R3746	1-216-033-00	METAL GLAZE	220 5% 1/10W
R3603	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3747	1-216-033-00	METAL GLAZE	220 5% 1/10W
R3604	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3748	1-216-029-00	METAL GLAZE	150 5% 1/10W
R3605	1-216-033-00	METAL GLAZE	220 5% 1/10W	R3749	1-216-029-00	METAL GLAZE	150 5% 1/10W
R3606	1-216-037-00	METAL GLAZE	330 5% 1/10W	R3750	1-216-029-00	METAL GLAZE	150 5% 1/10W
R3607	1-216-037-00	METAL GLAZE	330 5% 1/10W	R3751	1-216-049-71	METAL GLAZE	10K 5% 1/10W
R3608	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R3752	1-216-049-71	METAL GLAZE	10K 5% 1/10W
R3609	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3753	1-216-045-91	METAL GLAZE	680 5% 1/10W
R3610	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3754	1-216-041-00	METAL GLAZE	470 5% 1/10W
R3611	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3755	1-216-041-00	METAL GLAZE	470 5% 1/10W
R3612	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3756	1-216-041-00	METAL GLAZE	470 5% 1/10W
R3613	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3757	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R3614	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3764	1-216-607-11	METAL CHIP	15 0.50% 1/10W
R3615	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3765	1-216-607-11	METAL CHIP	15 0.50% 1/10W
R3616	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3766	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R3617	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3773	1-216-035-91	METAL GLAZE	270 5% 1/10W
R3618	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3774	1-216-041-71	METAL GLAZE	470 5% 1/10W
R3619	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3775	1-216-041-71	METAL GLAZE	470 5% 1/10W
R3626	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3776	1-216-295-00	CONDUCTOR, CHIP	
R3627	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3786	1-216-025-00	METAL GLAZE	100 5% 1/10W
R3628	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R3629	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R3661	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3662	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3701	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W				
R3702	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W				
R3703	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W				
R3704	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W				
R3705	1-216-117-00	METAL GLAZE	680K 5% 1/10W				
R3706	1-216-117-00	METAL GLAZE	680K 5% 1/10W				
R3707	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R3708	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R3709	1-216-013-00	METAL GLAZE	33 5% 1/10W				
R3710	1-216-295-00	CONDUCTOR, CHIP					
R3711	1-216-295-00	CONDUCTOR, CHIP					
R3714	1-216-121-91	METAL GLAZE	1M 5% 1/10W				
R3716	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R3717	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R3718	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R3719	1-216-295-00	CONDUCTOR, CHIP					
R3720	1-216-013-00	METAL GLAZE	33 5% 1/10W				
R3721	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R3722	1-216-121-91	METAL GLAZE	1M 5% 1/10W				

< CRYSTAL >

X3301	1-767-342-21	VIBRATOR, CRYSTAL
X3501	1-567-505-11	OSCILLATOR, CRYSTAL
X3502	1-567-504-11	OSCILLATOR, CRYSTAL
X3601	1-567-505-11	OSCILLATOR, CRYSTAL
X3602	1-567-504-11	OSCILLATOR, CRYSTAL

X3701	1-767-262-11	VIBRATOR, CRYSTAL
X3702	1-767-262-11	VIBRATOR, CRYSTAL

*A-1624-062-A F BOARD, COMPLETE

< CONNECTOR >

CN1601	*1-580-844-11	PIN, CONNECTOR (POWER)
CN1602	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P
CN1603	1-695-915-11	TAB (CONTACT)

< FUSE >

F1601	1-532-505-41	FUSE 5A/250V
	*1-533-725-11	HOLDER, FUSE (F1601)



The components identified by shading and marked Δ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< SWITCH >							
S1601	1-571-433-21	SWITCH, PUSH (AC POWER)		C59	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
*****				C60	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
*A-1626-013-A Q BOARD, COMPLETE				C61	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
*****				C62	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
< CAPACITOR >				C63	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
C1	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C64	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
C2	1-126-968-11	ELECT 100MF	20% 50V	C65	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C3	1-126-968-11	ELECT 100MF	20% 50V	C66	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C4	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C67	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C5	1-165-319-11	CERAMIC CHIP 0.1MF	50V	C68	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C6	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C70	1-126-967-11	ELECT 47MF	20% 50V
C7	1-126-965-11	ELECT 22MF	20% 50V	C71	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C8	1-126-935-11	ELECT 470MF	20% 16V	C72	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C9	1-165-319-11	CERAMIC CHIP 0.1MF	50V	C73	1-126-967-11	ELECT 47MF	20% 50V
C10	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C74	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C12	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	< CONNECTOR >			
C13	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
C14	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN2	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
C15	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	< DELAY LINE >			
C17	1-165-319-11	CERAMIC CHIP 0.1MF	50V	DL1	1-411-578-21	DELAY LINE, LC	
C18	1-164-222-11	CERAMIC CHIP 0.22MF	25V	< FERRITE BEAD >			
C19	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB1	1-216-295-00	CONDUCTOR, CHIP	
C20	1-163-077-00	CERAMIC CHIP 0.1MF	50V	FB2	1-414-553-11	INDUCTOR 0UH	
C21	1-165-319-11	CERAMIC CHIP 0.1MF	50V	FB3	1-414-553-11	INDUCTOR 0UH	
C22	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB4	1-414-553-11	INDUCTOR 0UH	
C23	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB5	1-216-295-00	CONDUCTOR, CHIP	
C24	1-165-319-11	CERAMIC CHIP 0.1MF	50V	FB6	1-414-234-11	INDUCTOR, FERRITE BEAD	
C25	1-165-319-11	CERAMIC CHIP 0.1MF	50V	FB7	1-414-234-11	INDUCTOR, FERRITE BEAD	
C26	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB8	1-414-234-11	INDUCTOR, FERRITE BEAD	
C28	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB9	1-414-234-11	INDUCTOR, FERRITE BEAD	
C30	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB10	1-414-234-11	INDUCTOR, FERRITE BEAD	
C31	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB11	1-414-234-11	INDUCTOR, FERRITE BEAD	
C32	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB12	1-414-234-11	INDUCTOR, FERRITE BEAD	
C33	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB13	1-414-234-11	INDUCTOR, FERRITE BEAD	
C34	1-164-505-11	CERAMIC CHIP 2.2MF	16V	FB14	1-414-234-11	INDUCTOR, FERRITE BEAD	
C35	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB15	1-414-234-11	INDUCTOR, FERRITE BEAD	
C36	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB16	1-414-234-11	INDUCTOR, FERRITE BEAD	
C37	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB17	1-414-234-11	INDUCTOR, FERRITE BEAD	
C38	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB18	1-414-234-11	INDUCTOR, FERRITE BEAD	
C39	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB19	1-414-234-11	INDUCTOR, FERRITE BEAD	
C40	1-126-967-11	ELECT 47MF	20% 16V	FB20	1-414-234-11	INDUCTOR, FERRITE BEAD	
C42	1-126-965-11	ELECT 22MF	20% 50V	FB21	1-414-234-11	INDUCTOR, FERRITE BEAD	
C43	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB22	1-414-234-11	INDUCTOR, FERRITE BEAD	
C44	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB23	1-414-234-11	INDUCTOR, FERRITE BEAD	
C45	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB24	1-414-234-11	INDUCTOR, FERRITE BEAD	
C46	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB25	1-414-234-11	INDUCTOR, FERRITE BEAD	
C48	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB26	1-414-234-11	INDUCTOR, FERRITE BEAD	
C49	1-163-127-00	CERAMIC CHIP 270PF	5% 50V	FB27	1-216-295-00	CONDUCTOR, CHIP	
C50	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V	FB28	1-216-295-00	CONDUCTOR, CHIP	
C51	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V	< ENCAPSULATED FILTER >			
C52	1-126-964-11	ELECT 10MF	20% 50V	FL1	1-236-071-11	ENCAPSULATED COMPONENT	
C53	1-126-967-11	ELECT 47MF	20% 50V	FL2	1-236-071-11	ENCAPSULATED COMPONENT	
C54	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	< IC >			
C55	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V	IC1	8-759-432-96	IC MC74F157ADR2	
C56	1-126-967-11	ELECT 47MF	20% 50V	IC2	8-759-432-95	IC CXD8624Q	
C57	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V				
C58	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC3	8-759-432-96	IC MC74F157ADR2		R55	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
IC4	8-759-432-35	IC MC74F240DWR2		R56	1-216-295-00	CONDUCTOR, CHIP	
IC5	8-759-432-96	IC MC74F157ADR2					
IC6	8-759-432-96	IC MC74F157ADR2		R57	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
IC7	8-759-432-94	IC CXD8625Q		R58	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
IC8	8-759-439-25	IC TMS4C2972-26DTR		R59	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
IC9	8-759-432-96	IC MC74F157ADR2		R60	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
IC10	8-759-458-17	IC SAA7165WP		R61	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
IC11	8-759-439-25	IC TMS4C2972-26DTR		R62	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
IC12	8-759-458-70	IC EPM7032LC44-15-AE4001		R63	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
IC13	8-759-458-18	IC TDA8501T		R64	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
				R65	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
				R66	1-216-295-00	CONDUCTOR, CHIP	
		< COIL >		R67	1-216-049-00	METAL GLAZE 1K 5%	1/10W
L1	1-408-409-00	INDUCTOR 10UH		R68	1-216-049-00	METAL GLAZE 1K 5%	1/10W
L2	1-408-409-00	INDUCTOR 10UH		R69	1-216-295-00	CONDUCTOR, CHIP	
L3	1-408-409-00	INDUCTOR 10UH		R70	1-216-295-00	CONDUCTOR, CHIP	
L4	1-410-428-11	INDUCTOR 56UH		R71	1-216-295-00	CONDUCTOR, CHIP	
L5	1-408-607-31	INDUCTOR 22UH					
L7	1-408-607-31	INDUCTOR 22UH		R72	1-216-295-00	CONDUCTOR, CHIP	
		< TRANSISTOR >		R73	1-216-077-00	METAL GLAZE 15K 5%	1/10W
Q1	8-729-038-96	TRANSISTOR IMZ1A-T109		R74	1-216-295-00	CONDUCTOR, CHIP	
Q2	8-729-620-06	TRANSISTOR 2SC3052-EF		R77	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
Q3	8-729-620-06	TRANSISTOR 2SC3052-EF		R78	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
Q4	8-729-620-06	TRANSISTOR 2SC3052-EF					
		< RESISTOR >		R79	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1	1-216-019-00	METAL GLAZE 56 5%	1/10W	R80	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2	1-216-015-00	METAL GLAZE 39 5%	1/10W	R81	1-216-041-00	METAL GLAZE 470 5%	1/10W
R6	1-216-295-00	CONDUCTOR, CHIP		R82	1-216-041-00	METAL GLAZE 470 5%	1/10W
R8	1-216-295-00	CONDUCTOR, CHIP		R84	1-216-041-00	METAL GLAZE 470 5%	1/10W
R9	1-216-025-00	METAL GLAZE 100 5%	1/10W				
R11	1-216-025-00	METAL GLAZE 100 5%	1/10W	R85	1-216-025-00	METAL GLAZE 100 5%	1/10W
R13	1-216-295-00	CONDUCTOR, CHIP		R89	1-216-001-00	METAL GLAZE 10 5%	1/10W
R14	1-216-295-00	CONDUCTOR, CHIP		R90	1-216-037-00	METAL GLAZE 330 5%	1/10W
R15	1-216-295-00	CONDUCTOR, CHIP		R91	1-216-037-00	METAL GLAZE 330 5%	1/10W
R16	1-216-295-00	CONDUCTOR, CHIP		R92	1-216-031-00	METAL GLAZE 180 5%	1/10W
R18	1-216-295-00	CONDUCTOR, CHIP					
R19	1-216-295-00	CONDUCTOR, CHIP		R93	1-216-041-00	METAL GLAZE 470 5%	1/10W
R20	1-216-295-00	CONDUCTOR, CHIP		R94	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R23	1-216-295-00	CONDUCTOR, CHIP		R96	1-216-103-00	METAL GLAZE 180K 5%	1/10W
R24	1-216-295-00	CONDUCTOR, CHIP		R97	1-216-079-00	METAL GLAZE 18K 5%	1/10W
				R98	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R25	1-216-295-00	CONDUCTOR, CHIP					
R26	1-216-009-00	METAL GLAZE 22 5%	1/10W	R99	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R27	1-216-009-00	METAL GLAZE 22 5%	1/10W	R100	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R28	1-216-009-00	METAL GLAZE 22 5%	1/10W	R101	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R29	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R102	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
				R103	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R30	1-216-295-00	CONDUCTOR, CHIP					
R33	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	R104	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R34	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R105	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R35	1-216-013-00	METAL GLAZE 33 5%	1/10W	R106	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R36	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R107	1-216-021-00	METAL GLAZE 68 5%	1/10W
				R108	1-216-021-00	METAL GLAZE 68 5%	1/10W
R37	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W				
R42	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R109	1-216-021-00	METAL GLAZE 68 5%	1/10W
R47	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R110	1-216-009-00	METAL GLAZE 22 5%	1/10W
R50	1-216-295-00	CONDUCTOR, CHIP		R111	1-216-009-00	METAL GLAZE 22 5%	1/10W
R51	1-216-295-00	CONDUCTOR, CHIP		R112	1-216-001-00	METAL GLAZE 10 5%	1/10W
				R113	1-216-001-00	METAL GLAZE 10 5%	1/10W
R52	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W				
R53	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R114	1-216-001-00	METAL GLAZE 10 5%	1/10W
R54	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R115	1-216-001-00	METAL GLAZE 10 5%	1/10W
				R116	1-216-001-00	METAL GLAZE 10 5%	1/10W
				R117	1-216-001-00	METAL GLAZE 10 5%	1/10W
				R118	1-216-001-00	METAL GLAZE 10 5%	1/10W
				R119	1-216-001-00	METAL GLAZE 10 5%	1/10W
				R120	1-216-001-00	METAL GLAZE 10 5%	1/10W
				R121	1-216-001-00	METAL GLAZE 10 5%	1/10W
				R122	1-216-001-00	METAL GLAZE 10 5%	1/10W

KV-28FD1/32FD1



REF.NO.	PART NO.	DESCRIPTION	REMARK
R123	1-216-001-00	METAL GLAZE 10 5% 1/10W	
	< CRYSTAL >		
X1	1-567-504-11	OSCILLATOR, CRYSTAL	

	*A-1632-660-A	A BOARD, COMPLETE (KV-28FD1E/28FD1K)	

	*A-1632-699-A	A BOARD, COMPLETE (KV-32FD1E/32FD1K)	

	1-750-797-11	SOCKET, PLCC	
	4-202-373-01	SPRING, IC	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
	< CAPACITOR >		
C101	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C103	1-126-933-11	ELECT 100MF 20% 16V	
C104	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C105	1-126-967-11	ELECT 47MF 20% 50V	
C106	1-163-253-11	CERAMIC CHIP 120PF 5% 50V	
C107	1-163-249-11	CERAMIC CHIP 82PF 5% 50V	
C109	1-163-249-11	CERAMIC CHIP 82PF 5% 50V	
C110	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C111	1-104-664-11	ELECT 47MF 20% 25V	
C113	1-126-967-11	ELECT 47MF 20% 50V	
C115	1-163-227-11	CERAMIC CHIP 10PF 0.5PF 50V	
C122	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C123	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C124	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C126	1-104-664-11	ELECT 47MF 20% 25V	
C127	1-126-923-11	ELECT 220MF 20% 10V	
C128	1-126-923-11	ELECT 220MF 20% 10V	
C135	1-164-182-11	CERAMIC CHIP 0.0033MF 10% 50V	
C136	1-163-253-11	CERAMIC CHIP 120PF 5% 50V	
C138	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C139	1-163-249-11	CERAMIC CHIP 82PF 5% 50V	
C140	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C141	1-163-249-11	CERAMIC CHIP 82PF 5% 50V	
C142	1-163-227-11	CERAMIC CHIP 10PF 0.5PF 50V	
C143	1-164-346-11	CERAMIC CHIP 1MF 16V	
C145	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C146	1-104-664-11	ELECT 47MF 20% 25V	
C149	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C150	1-104-664-11	ELECT 47MF 20% 25V	
C152	1-164-346-11	CERAMIC CHIP 1MF 16V	
C153	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C154	1-164-161-11	CERAMIC CHIP 0.22MF 10% 25V	
C155	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C156	1-104-664-11	ELECT 47MF 20% 25V	
C158	1-107-823-11	CERAMIC CHIP 0.47MF 10% 16V	
C159	1-163-259-91	CERAMIC CHIP 220PF 5% 50V	
C160	1-126-961-11	ELECT 2.2MF 20% 50V	
C162	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C163	1-126-961-11	ELECT 2.2MF 20% 50V	
C166	1-104-664-11	ELECT 47MF 20% 25V	
C167	1-104-664-11	ELECT 47MF 20% 25V	
C201	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C203	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C204	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C205	1-104-664-11	ELECT 47MF 20% 25V	

REF.NO.	PART NO.	DESCRIPTION	REMARK
C206	1-163-231-11	CERAMIC CHIP 15PF 5% 50V	
C207	1-216-295-00	CONDUCTOR, CHIP	
C208	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C209	1-107-823-11	CERAMIC CHIP 0.47MF 10% 16V	
C210	1-107-823-11	CERAMIC CHIP 0.47MF 10% 16V	
C211	1-107-823-11	CERAMIC CHIP 0.47MF 10% 16V	
C212	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C213	1-126-963-11	ELECT 4.7MF 20% 50V	
C214	1-126-963-11	ELECT 4.7MF 20% 50V	
C215	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C216	1-126-933-11	ELECT 100MF 20% 16V	
C217	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C218	1-126-933-11	ELECT 100MF 20% 16V	
C219	1-126-964-11	ELECT 10MF 20% 50V	
C220	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C221	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C222	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C223	1-126-964-11	ELECT 10MF 20% 50V	
C224	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C225	1-163-087-00	CERAMIC CHIP 4PF 0.25PF 50V	
C226	1-163-087-00	CERAMIC CHIP 4PF 0.25PF 50V	
C227	1-164-182-11	CERAMIC CHIP 0.0033MF 10% 50V	
C228	1-164-182-11	CERAMIC CHIP 0.0033MF 10% 50V	
C229	1-164-182-11	CERAMIC CHIP 0.0033MF 10% 50V	
C230	1-164-182-11	CERAMIC CHIP 0.0033MF 10% 50V	
C231	1-163-129-00	CERAMIC CHIP 330PF 5% 50V	
C232	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C233	1-126-933-11	ELECT 100MF 20% 16V	
C235	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C236	1-104-661-91	ELECT 330MF 20% 16V	
C240	1-126-961-11	ELECT 2.2MF 20% 50V	
C241	1-126-961-11	ELECT 2.2MF 20% 50V	
C243	1-104-664-11	ELECT 47MF 20% 25V	
C246	1-164-489-11	CERAMIC CHIP 0.22MF 10% 16V	
C247	1-104-664-11	ELECT 47MF 20% 25V	
C248	1-104-664-11	ELECT 47MF 20% 25V	
C249	1-164-489-11	CERAMIC CHIP 0.22MF 10% 16V	
C252	1-136-165-00	FILM 0.1MF 5% 50V	
C253	1-126-943-11	ELECT 2200MF 20% 25V	
C254	1-136-165-00	FILM 0.1MF 5% 50V	
C255	1-136-165-00	FILM 0.1MF 5% 50V	
C256	1-136-165-00	FILM 0.1MF 5% 50V	
C257	1-126-943-11	ELECT 2200MF 20% 25V	
C258	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C259	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C261	1-126-933-11	ELECT 100MF 20% 16V	
C262	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C263	1-107-823-11	CERAMIC CHIP 0.47MF 10% 16V	
C264	1-107-823-11	CERAMIC CHIP 0.47MF 10% 16V	
C265	1-107-823-11	CERAMIC CHIP 0.47MF 10% 16V	
C266	1-107-823-11	CERAMIC CHIP 0.47MF 10% 16V	
C267	1-126-964-11	ELECT 10MF 20% 50V	
C268	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C271	1-126-964-11	ELECT 10MF 20% 50V	
C1101	1-104-664-11	ELECT 47MF 20% 25V	
C1102	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1105	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C1106	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C1107	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1108	1-126-967-11	ELECT 47MF 20% 50V	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1109	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1192	1-126-960-11	ELECT 1MF	20% 50V
C1111	1-104-664-11	ELECT 47MF	20% 25V	C1193	1-126-963-11	ELECT 4.7MF	20% 50V
C1113	1-104-664-11	ELECT 47MF	20% 25V	C1194	1-104-664-11	ELECT 47MF	20% 25V
C1114	1-104-664-11	ELECT 47MF	20% 25V	C1195	1-126-964-11	ELECT 10MF	20% 50V
C1115	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1196	1-104-664-11	ELECT 47MF	20% 25V
C1117	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1197	1-164-161-11	CERAMIC CHIP 0.22MF	10% 25V
C1119	1-104-664-11	ELECT 47MF	20% 25V	C1198	1-164-161-11	CERAMIC CHIP 0.22MF	10% 25V
C1120	1-126-933-11	ELECT 100MF	20% 16V	C1199	1-164-161-11	CERAMIC CHIP 0.22MF	10% 25V
C1121	1-126-933-11	ELECT 100MF	20% 16V	C1200	1-164-161-11	CERAMIC CHIP 0.22MF	10% 25V
C1122	1-126-933-11	ELECT 100MF	20% 16V	C1201	1-164-161-11	CERAMIC CHIP 0.22MF	10% 25V
C1123	1-104-664-11	ELECT 47MF	20% 25V	C1202	1-104-664-11	ELECT 47MF	20% 25V
C1125	1-104-664-11	ELECT 47MF	20% 25V	C1203	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1126	1-104-664-11	ELECT 47MF	20% 25V	C1204	1-104-664-11	ELECT 47MF	20% 25V
C1127	1-104-664-11	ELECT 47MF	20% 25V	C1205	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1128	1-104-664-11	ELECT 47MF	20% 25V	C1207	1-110-489-11	CAPACITOR 1F	5.5V
C1129	1-126-964-11	ELECT 10MF	20% 50V	C1208	1-164-161-11	CERAMIC CHIP 0.22MF	10% 25V
C1131	1-165-321-11	CERAMIC CHIP 0.68MF	10% 16V	C1209	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1132	1-104-664-11	ELECT 47MF	20% 25V	C1210	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1133	1-104-664-11	ELECT 47MF	20% 25V	C1211	1-136-165-00	FILM 0.1MF	5% 50V
C1134	1-164-157-11	CERAMIC CHIP 0.068MF	10% 25V	C1212	1-126-964-11	ELECT 10MF	20% 50V
C1135	1-104-664-11	ELECT 47MF	20% 25V	C1213	1-128-578-11	ELECT 1MF	20% 100V
C1137	1-126-960-11	ELECT 1MF	20% 50V	C1215	1-104-664-11	ELECT 47MF	20% 25V
C1138	1-126-964-11	ELECT 10MF	20% 50V	C1216	1-104-664-11	ELECT 47MF	20% 25V
C1141	1-126-964-11	ELECT 10MF	20% 50V	C1217	1-137-423-11	MYLAR 0.15MF	10% 100V
C1142	1-164-161-11	CERAMIC CHIP 0.22MF	10% 25V	C1301	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1143	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1303	1-104-664-91	ELECT 47MF	20% 25V
C1145	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1310	1-104-665-11	ELECT 100MF	20% 25V
C1146	1-164-161-11	CERAMIC CHIP 0.22MF	10% 25V	C1314	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1147	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1319	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1148	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1320	1-126-960-11	ELECT 1MF	20% 50V
C1149	1-164-161-11	CERAMIC CHIP 0.22MF	10% 25V	C1321	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1150	1-104-661-91	ELECT 330MF	20% 16V	C1322	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1152	1-164-161-11	CERAMIC CHIP 0.22MF	10% 25V	C1323	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1153	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1324	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1154	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1325	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1155	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1326	1-126-961-11	ELECT 2.2MF	20% 50V
C1156	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	C1327	1-126-961-11	ELECT 2.2MF	20% 50V
C1157	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1328	1-126-961-11	ELECT 2.2MF	20% 50V
C1158	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	C1329	1-126-961-11	ELECT 2.2MF	20% 50V
C1159	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1330	1-126-961-11	ELECT 2.2MF	20% 50V
C1160	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1331	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1161	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1332	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1163	1-164-161-11	CERAMIC CHIP 0.22MF	10% 25V	C1333	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1164	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1334	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1165	1-164-161-11	CERAMIC CHIP 0.22MF	10% 25V	C1335	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1168	1-104-664-11	ELECT 47MF	20% 25V	C1336	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1169	1-126-967-11	ELECT 47MF	20% 50V	C1337	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1170	1-126-963-91	ELECT 4.7MF	20% 50V	C1338	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1171	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1339	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1175	1-164-161-11	CERAMIC CHIP 0.22MF	10% 25V	C1340	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1176	1-126-967-11	ELECT 47MF	20% 50V	C1341	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1177	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1342	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1178	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1343	1-104-665-11	ELECT 100MF	20% 25V
C1179	1-104-664-11	ELECT 47MF	20% 25V	C1344	1-126-961-11	ELECT 2.2MF	20% 50V
C1180	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C1345	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1181	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1346	1-126-961-11	ELECT 2.2MF	20% 50V
C1182	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1347	1-126-961-11	ELECT 2.2MF	20% 50V
C1188	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1348	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1189	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1349	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1190	1-104-664-11	ELECT 47MF	20% 25V	C1350	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1191	1-104-664-11	ELECT 47MF	20% 25V	C1351	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C1352	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1353	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1354	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1355	1-126-964-11	ELECT 10MF	20% 50V
C1356	1-126-964-11	ELECT 10MF	20% 50V
C1357	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1359	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1360	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1362	1-126-964-11	ELECT 10MF	20% 50V
C1363	1-126-961-11	ELECT 2.2MF	20% 50V
C1364	1-126-961-11	ELECT 2.2MF	20% 50V
C1365	1-126-961-11	ELECT 2.2MF	20% 50V
C1366	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1367	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1369	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1370	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1381	1-126-964-11	ELECT 10MF	20% 50V
C1387	1-104-664-11	ELECT 47MF	20% 25V
C1388	1-104-664-11	ELECT 47MF	20% 25V
C1389	1-104-664-11	ELECT 47MF	20% 25V
C1393	1-104-665-11	ELECT 100MF	20% 25V
C1394	1-126-964-11	ELECT 10MF	20% 50V
C1395	1-126-964-11	ELECT 10MF	20% 50V
C1396	1-126-964-11	ELECT 10MF	20% 50V
C1397	1-126-964-11	ELECT 10MF	20% 50V
C1400	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1403	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1404	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1405	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1406	1-104-664-91	ELECT 47MF	20% 25V
C1407	1-104-664-91	ELECT 47MF	20% 25V
C1408	1-107-714-11	ELECT 10MF	20% 16V
C1409	1-107-714-11	ELECT 10MF	20% 16V
C1410	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1411	1-104-665-11	ELECT 100MF	20% 25V
C1412	1-104-665-11	ELECT 100MF	20% 25V
C1414	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1415	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1417	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1418	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1419	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1420	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1421	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1422	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1423	1-104-661-91	ELECT 330MF	20% 16V
C1424	1-126-961-11	ELECT 2.2MF	20% 50V
C1425	1-126-961-11	ELECT 2.2MF	20% 50V
C1426	1-126-961-11	ELECT 2.2MF	20% 50V
C1427	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1428	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1429	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1430	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1431	1-104-665-11	ELECT 100MF	20% 25V
C1435	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1436	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1437	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1438	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1439	1-104-665-11	ELECT 100MF	20% 25V
C1440	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1441	1-104-665-11	ELECT 100MF	20% 25V
C2501	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C2502	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C2503	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C2504	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2505	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2506	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C2509	1-126-964-11	ELECT 10MF	20% 50V
C2510	1-164-346-11	CERAMIC CHIP 1MF	16V
C2511	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C2512	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2513	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2514	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2515	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2516	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2517	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
< FILTER >			
CD1105	1-527-992-31	OSCILLATOR, CERAMIC	
CF101	1-760-571-21	FILTER, CERAMIC	
CF102	1-760-415-21	FILTER, CERAMIC	
CF103	1-760-450-21	FILTER, CERAMIC	
CF201	1-760-665-21	TRAP, CERAMIC	
< CONNECTOR >			
CN201	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
CN202	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
CN206	*1-568-881-51	PIN, CONNECTOR 6P	
CN1102	*1-568-880-51	PIN, CONNECTOR 5P	
CN1105	*1-568-879-11	PIN, CONNECTOR 4P	
CN1106	*1-568-878-51	PIN, CONNECTOR 3P	
CN1107	*1-568-882-51	PIN, CONNECTOR 7P	
CN1108	*1-568-880-51	PIN, CONNECTOR 5P	
CN1109	*1-568-880-51	PIN, CONNECTOR 5P	
CN1110	*1-568-882-51	PIN, CONNECTOR 7P	
CN1111	*1-568-878-51	PIN, CONNECTOR 3P	
CN1112	*1-568-881-51	PIN, CONNECTOR 6P	
CN1113	*1-568-882-51	PIN, CONNECTOR 7P	
CN1114	1-695-915-11	TAB (CONTACT)	
CN1301	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
CN1302	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
CN1303	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
CN1305	1-564-511-11	PLUG, CONNECTOR 8P	
CN1307	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
CN1308	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
CN1309	*1-568-881-51	PIN, CONNECTOR 6P	
CN1310	*1-568-881-51	PIN, CONNECTOR 6P	
CN1311	1-695-915-11	TAB (CONTACT)	
CN1312	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
CN1313	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
CN2501	*1-568-882-51	PIN, CONNECTOR 7P	
CN2502	*1-564-511-11	PLUG, CONNECTOR 8P	
CN2504	*1-568-878-51	PIN, CONNECTOR 3P	
< BOOSTER >			
CP101	1-251-658-11	DISTRIBUTOR, RF	
< TRIMMER >			
CT1101	1-141-245-00	CAP, CERAMIC TRIMMER 30PF	
< DIODE >			
D101	8-719-982-27	DIODE MTZJ-33C	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D102	8-719-914-43	DIODE DAN202K		< ENCAPSULATED FILTER >			
D103	8-719-421-57	DIODE MA73-TX		FL101	1-408-607-31	INDUCTOR 22UH	
D104	8-719-421-57	DIODE MA73-TX		FL102	1-408-409-00	INDUCTOR 10UH	
D105	8-719-421-57	DIODE MA73-TX		FL103	1-408-409-00	INDUCTOR 10UH	
D201	8-719-991-33	DIODE 1SS133T-77		FL201	1-233-764-21	FILTER	
D203	8-719-914-43	DIODE DAN202K		FL202	1-236-071-11	ENCAPSULATED COMPONENT	
D204	8-719-991-33	DIODE 1SS133T-77		FL203	1-236-071-11	ENCAPSULATED COMPONENT	
D205	8-719-914-43	DIODE DAN202K		FL204	1-236-071-11	ENCAPSULATED COMPONENT	
D206	8-719-914-42	DIODE DA204K		FL1105	1-236-071-11	ENCAPSULATED COMPONENT	
D207	8-719-991-33	DIODE 1SS133T-77		FL1106	1-236-071-11	ENCAPSULATED COMPONENT	
D208	8-719-991-33	DIODE 1SS133T-77		FL1107	1-236-071-11	ENCAPSULATED COMPONENT	
D209	8-719-991-33	DIODE 1SS133T-77		FL1108	1-236-071-11	ENCAPSULATED COMPONENT	
D210	8-719-991-33	DIODE 1SS133T-77		FL1301	1-239-400-11	FILTER, CHIP EMI	
D1105	8-719-404-46	DIODE MA110		FL1302	1-239-400-11	FILTER, CHIP EMI	
D1106	8-719-404-46	DIODE MA110		FL1303	1-239-400-11	FILTER, CHIP EMI	
D1107	8-719-404-46	DIODE MA110		FL1304	1-233-446-11	FILTER, LOW PASS	
D1108	8-719-404-46	DIODE MA110		FL1305	1-233-446-11	FILTER, LOW PASS	
D1109	8-719-056-83	DIODE UDW-TE-17-6.8B		FL1306	1-233-446-11	FILTER, LOW PASS	
D1110	8-719-911-19	DIODE 1SS119-25		< IC >			
D1115	8-719-914-44	DIODE DAP202K		IC101	8-759-478-90	IC U2861B-MFP-G3	
D1116	8-719-105-91	DIODE RD5.6M-B2		IC103	8-759-514-57	IC BA7046F	
D1117	8-719-914-43	DIODE DAN202K		IC104	8-759-300-71	IC HD14053BFP	
D1118	8-719-105-91	DIODE RD5.6M-B2		IC201	8-759-478-94	IC MSP3410D-PS-B4-T	
D1119	8-719-914-43	DIODE DAN202K		IC202	8-759-190-89	IC TDA7265	
D1120	8-719-025-31	DIODE 02CZ5.6-TE85L		IC203	8-759-701-36	IC NJM3403AM	
D1121	8-719-025-31	DIODE 02CZ5.6-TE85L		IC204	8-759-342-60	IC PST575DMT-T1	
D1122	8-719-025-31	DIODE 02CZ5.6-TE85L		IC1101	8-752-072-94	IC CXA1875AM-T4	
D1123	8-719-025-31	DIODE 02CZ5.6-TE85L		IC1105	8-759-507-29	IC LM7808CT	
D1124	8-719-914-43	DIODE DAN202K		IC1106	8-759-420-90	IC AN78N09	
D1125	8-719-914-44	DIODE DAP202K		IC1108	8-759-231-53	IC TA7805S	
D1126	8-719-914-44	DIODE DAP202K		IC1109	8-759-231-53	IC TA7805S	
D1127	8-719-105-91	DIODE RD5.6M-B2		IC1110	8-759-231-53	IC TA7805S	
D1128	8-719-105-91	DIODE RD5.6M-B2		IC1111	8-759-259-18	IC MB3793-42PNF	
D1129	8-719-105-91	DIODE RD5.6M-B2		IC1112	8-759-426-56	IC MB814400C-70PJN-ER	
D1130	8-719-105-91	DIODE RD5.6M-B2		IC1113	8-759-438-62	IC SDA5275	
D1131	8-719-914-44	DIODE DAP202K		IC1114	8-759-008-67	IC MC14066BF	
D1132	8-719-914-43	DIODE DAN202K		IC1116	8-759-442-44	IC SDA30C164-2-GEG	
D1133	8-719-914-44	DIODE DAP202K		IC1119	8-759-480-01	IC M27C4001-15C1-GE101	
D1134	8-719-914-42	DIODE DA204K		IC1121	8-759-390-51	IC UPC2409AHF	
D1135	8-719-914-42	DIODE DA204K		IC1123	8-759-487-97	IC ST24E32FB6	
D1136	8-719-914-42	DIODE DA204K		IC1126	8-759-990-63	IC PCF8574AT	
D1137	8-719-914-42	DIODE DA204K		IC1131	8-759-990-63	IC PCF8574AT	
D1138	8-719-914-42	DIODE DA204K		IC1132	8-759-990-63	IC PCF8574AT	
D1139	8-719-914-43	DIODE DAN202K		IC1133	8-759-822-38	IC LA6510	
D1140	1-535-143-61	LEAD JUMPER (5.0MM)		IC1134	8-759-008-70	IC LM358N	
D1141	8-719-048-55	DIODE MTZJ-T-77-10C		IC1135	8-759-325-48	IC CA0005AD	
D1142	8-719-109-88	DIODE RD5.6ES-B1		IC1136	8-759-364-77	IC MEM29F040A-90PF	
D1310	8-719-025-29	DIODE 02CZ5.1-TE85L		IC1137	8-759-395-27	IC TC55257DFTL-70V	
D1311	8-719-404-46	DIODE MA110		IC1138	8-759-329-82	IC SN74ALS00ANS-E05	
D1312	8-719-923-60	DIODE MTZJ-T-77-9.1A		IC1139	8-759-442-20	IC 24LC21A/SN	
D1315	8-719-800-76	DIODE 1SS226		IC1140	8-759-442-20	IC 24LC21A/SN	
D1316	8-719-800-76	DIODE 1SS226		IC1141	8-759-478-44	IC PCF8593/T3	
D1317	8-719-800-76	DIODE 1SS226		IC1142	8-759-034-47	IC MC74F00M-T2	
D2501	8-719-914-43	DIODE DAN202K		IC1301	8-759-300-71	IC HD14053BFP	
D2502	8-719-028-00	DIODE MA3033-L		IC1311	8-759-300-71	IC HD14053BFP	
< FERRITE BEAD >				IC1316	8-759-300-71	IC HD14053BFP	
FB201	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		IC1317	8-759-300-71	IC HD14053BFP	
FB202	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		IC1318	8-752-082-92	IC CXA2101Q-TL	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1319	8-759-231-53	IC TA7805S		Q114	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1320	8-752-058-68	IC CXA1315M		Q115	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1321	8-752-053-21	IC CXA1211M		Q116	1-801-806-11	TRANSISTOR DTC144EKA	
IC1322	8-752-053-21	IC CXA1211M		Q117	1-801-806-11	TRANSISTOR DTC144EKA	
IC1323	8-759-098-24	IC PQ30RV11					
IC1324	8-759-300-71	IC HD14053BFP		Q118	1-801-806-11	TRANSISTOR DTC144EKA	
IC1325	8-759-031-84	IC SC7S04F		Q119	1-801-806-11	TRANSISTOR DTC144EKA	
IC1326	8-759-031-84	IC SC7S04F		Q120	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1327	8-759-058-62	IC TC7S08FU(TE85R)		Q121	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1328	8-759-058-62	IC TC7S08FU(TE85R)		Q122	1-801-806-11	TRANSISTOR DTC144EKA	
IC1329	8-759-058-62	IC TC7S08FU(TE85R)		Q123	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1330	8-759-058-62	IC TC7S08FU(TE85R)		Q124	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1331	8-759-300-71	IC HD14053BFP		Q125	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1332	8-759-485-79	IC TC7SET08FU(TE85L)		Q126	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1333	8-759-485-79	IC TC7SET08FU(TE85L)		Q201	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1334	8-759-485-79	IC TC7SET08FU(TE85L)		Q202	8-729-216-22	TRANSISTOR 2SA1162-G	
IC2501	8-759-421-42	IC SDA9361		Q203	8-729-620-06	TRANSISTOR 2SC3052-EF	
< COIL >				Q204	8-729-620-06	TRANSISTOR 2SC3052-EF	
L101	1-408-412-00	INDUCTOR 18UH		Q205	8-729-620-06	TRANSISTOR 2SC3052-EF	
L102	1-408-421-00	INDUCTOR 100UH		Q206	8-729-620-06	TRANSISTOR 2SC3052-EF	
L103	1-408-421-00	INDUCTOR 100UH		Q209	8-729-620-06	TRANSISTOR 2SC3052-EF	
L105	1-408-412-00	INDUCTOR 18UH		Q210	8-729-027-31	TRANSISTOR DTA124EKA-T146	
L106	1-408-421-00	INDUCTOR 100UH		Q211	8-729-620-06	TRANSISTOR 2SC3052-EF	
L107	1-408-421-00	INDUCTOR 100UH		Q212	8-729-620-06	TRANSISTOR 2SC3052-EF	
L108	1-408-421-00	INDUCTOR 100UH		Q213	8-729-620-06	TRANSISTOR 2SC3052-EF	
L109	1-408-421-00	INDUCTOR 100UH		Q214	8-729-620-06	TRANSISTOR 2SC3052-EF	
L201	1-408-421-00	INDUCTOR 100UH		Q215	8-729-620-06	TRANSISTOR 2SC3052-EF	
L202	1-408-409-00	INDUCTOR 10UH		Q1105	8-729-140-97	TRANSISTOR 2SB734-T-34	
L203	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1106	8-729-901-00	TRANSISTOR DTC124EK	
L204	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1107	8-729-200-17	TRANSISTOR 2SA1091-0	
L205	1-408-421-00	INDUCTOR 100UH		Q1108	8-729-140-97	TRANSISTOR 2SB734-T-34	
L1101	1-408-421-00	INDUCTOR 100UH		Q1109	8-729-901-00	TRANSISTOR DTC124EK	
L1105	1-408-417-00	INDUCTOR 47UH		Q1110	8-729-901-00	TRANSISTOR DTC124EK	
L1106	1-408-417-00	INDUCTOR 47UH		Q1111	8-729-620-06	TRANSISTOR 2SC3052-EF	
L1108	1-408-417-11	INDICATOR 47UH		Q1112	8-729-620-06	TRANSISTOR 2SC3052-EF	
L1109	1-412-537-31	INDUCTOR 100UH		Q1113	8-729-216-22	TRANSISTOR 2SA1162-G	
L1301	1-408-421-00	INDUCTOR 100UH		Q1116	8-729-620-06	TRANSISTOR 2SC3052-EF	
L1302	1-408-609-41	INDUCTOR 33UH		Q1117	8-729-620-06	TRANSISTOR 2SC3052-EF	
L1303	1-408-609-41	INDUCTOR 33UH		Q1120	1-801-806-11	TRANSISTOR DTC144EKA	
L1304	1-408-409-00	INDUCTOR 10UH		Q1121	1-801-806-11	TRANSISTOR DTC144EKA	
L1305	1-412-545-11	INDUCTOR 470UH		Q1122	8-729-216-22	TRANSISTOR 2SA1162-G	
L1306	1-408-409-00	INDUCTOR 10UH		Q1123	8-729-216-22	TRANSISTOR 2SA1162-G	
L1307	1-408-412-00	INDUCTOR 18UH		Q1124	8-729-216-22	TRANSISTOR 2SA1162-G	
L1308	1-408-409-00	INDUCTOR 10UH		Q1125	8-729-216-22	TRANSISTOR 2SA1162-G	
L1309	1-408-421-00	INDUCTOR 100UH		Q1126	8-729-620-06	TRANSISTOR 2SC3052-EF	
L1310	1-408-421-00	INDUCTOR 100UH		Q1127	8-729-620-06	TRANSISTOR 2SC3052-EF	
L2501	1-216-295-00	CONDUCTOR, CHIP		Q1128	8-729-620-06	TRANSISTOR 2SC3052-EF	
< TRANSISTOR >				Q1129	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q101	8-729-620-06	TRANSISTOR 2SC3052-EF		Q1130	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q102	1-801-806-11	TRANSISTOR DTC144EKA		Q1131	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q103	1-801-806-11	TRANSISTOR DTC144EKA		Q1132	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q104	8-729-039-67	TRANSISTOR BSS83		Q1133	8-729-140-97	TRANSISTOR 2SB734-34	
Q105	8-729-216-22	TRANSISTOR 2SA1162-G		Q1134	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q108	8-729-620-06	TRANSISTOR 2SC3052-EF		Q1301	1-801-806-11	TRANSISTOR DTC144EKA	
Q109	8-729-216-22	TRANSISTOR 2SA1162-G		Q1312	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q110	1-801-806-11	TRANSISTOR DTC144EKA		Q1313	8-729-422-37	TRANSISTOR 2SB709A-R	
Q111	8-729-039-67	TRANSISTOR BSS83		Q1315	1-801-806-11	TRANSISTOR DTC144EKA	
Q112	1-801-806-11	TRANSISTOR DTC144EKA		Q1316	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q113	8-729-216-22	TRANSISTOR 2SA1162-G		Q1317	8-729-620-06	TRANSISTOR 2SC3052-EF	
				Q1318	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q1320	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q1321	8-729-216-22	TRANSISTOR 2SA1162-G	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1322	8-729-216-22	TRANSISTOR 2SA1162-G		R154	1-216-295-00	CONDUCTOR, CHIP	
Q1323	8-729-620-06	TRANSISTOR 2SC3052-EF		R155	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
Q1324	8-729-620-06	TRANSISTOR 2SC3052-EF		R156	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q1325	8-729-620-06	TRANSISTOR 2SC3052-EF		R157	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q1326	8-729-620-06	TRANSISTOR 2SC3052-EF		R158	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
Q1327	8-729-620-06	TRANSISTOR 2SC3052-EF		R159	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
Q1328	8-729-620-06	TRANSISTOR 2SC3052-EF		R160	1-216-035-00	METAL GLAZE 270 5%	1/10W
Q1329	8-729-216-22	TRANSISTOR 2SA1162-G		R161	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q1330	8-729-216-22	TRANSISTOR 2SA1162-G		R162	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q1331	8-729-216-22	TRANSISTOR 2SA1162-G		R163	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q1332	8-729-620-06	TRANSISTOR 2SC3052-EF		R164	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
Q1333	8-729-216-22	TRANSISTOR 2SA1162-G		R165	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
Q1334	8-729-216-22	TRANSISTOR 2SA1162-G		R166	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
Q1335	8-729-216-22	TRANSISTOR 2SA1162-G		R167	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q1336	8-729-620-06	TRANSISTOR 2SC3052-EF		R168	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
Q1337	8-729-620-06	TRANSISTOR 2SC3052-EF		R169	1-216-295-00	CONDUCTOR, CHIP	
Q1338	8-729-620-06	TRANSISTOR 2SC3052-EF		R170	1-216-073-00	METAL GLAZE 10K 5%	1/10W
< RESISTOR >				R171	1-216-073-00	METAL GLAZE 10K 5%	1/10W
JR201	1-216-295-00	CONDUCTOR, CHIP		R173	1-216-077-00	METAL GLAZE 15K 5%	1/10W
JR1107	1-216-295-00	CONDUCTOR, CHIP		R174	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
JR1108	1-216-295-00	CONDUCTOR, CHIP		R175	1-216-689-11	METAL GLAZE 39K 5%	1/10W
R101	1-216-295-00	CONDUCTOR, CHIP		R176	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R102	1-216-043-91	METAL GLAZE 560 5%	1/10W	R177	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R103	1-216-043-91	METAL GLAZE 560 5%	1/10W	R178	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R104	1-216-043-91	METAL GLAZE 560 5%	1/10W	R179	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R105	1-215-917-11	METAL OXIDE 1K 5%	3W F	R180	1-216-295-00	CONDUCTOR, CHIP	
R106	1-216-037-00	METAL GLAZE 330 5%	1/10W	R181	1-216-295-00	CONDUCTOR, CHIP	
R107	1-216-037-00	METAL GLAZE 330 5%	1/10W	R182	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R108	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R183	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R112	1-216-041-00	METAL GLAZE 470 5%	1/10W	R184	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R114	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R185	1-216-295-00	CONDUCTOR, CHIP	
R115	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R186	1-216-295-00	CONDUCTOR, CHIP	
R116	1-216-295-00	CONDUCTOR, CHIP		R187	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R117	1-216-295-00	CONDUCTOR, CHIP		R188	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R119	1-216-025-00	METAL GLAZE 100 5%	1/10W	R201	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R120	1-216-295-00	CONDUCTOR, CHIP		R202	1-216-025-00	METAL GLAZE 100 5%	1/10W
R121	1-216-295-00	CONDUCTOR, CHIP		R203	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R124	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	R204	1-216-041-00	METAL GLAZE 470 5%	1/10W
R125	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R205	1-216-001-00	METAL GLAZE 10 5%	1/10W
R126	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R206	1-216-041-00	METAL GLAZE 470 5%	1/10W
R129	1-216-025-00	METAL GLAZE 100 5%	1/10W	R207	1-216-037-00	METAL GLAZE 330 5%	1/10W
R133	1-216-295-00	CONDUCTOR, CHIP		R208	1-216-045-00	METAL GLAZE 680 5%	1/10W
R136	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R209	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R137	1-216-037-00	METAL GLAZE 330 5%	1/10W	R210	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R138	1-216-037-00	METAL GLAZE 330 5%	1/10W	R211	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R139	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R212	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R140	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R213	1-216-041-00	METAL GLAZE 470 5%	1/10W
R141	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R214	1-216-037-00	METAL GLAZE 330 5%	1/10W
R142	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R216	1-216-295-00	CONDUCTOR, CHIP	
R143	1-216-041-00	METAL GLAZE 470 5%	1/10W	R218	1-216-295-00	CONDUCTOR, CHIP	
R144	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R219	1-216-295-00	CONDUCTOR, CHIP	
R145	1-216-025-00	METAL GLAZE 100 5%	1/10W	R220	1-216-025-00	METAL GLAZE 100 5%	1/10W
R146	1-216-107-00	METAL GLAZE 270K 5%	1/10W	R221	1-216-295-00	CONDUCTOR, CHIP	
R147	1-216-113-00	METAL GLAZE 470K 5%	1/10W	R222	1-216-295-00	CONDUCTOR, CHIP	
R148	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	R223	1-216-025-00	METAL GLAZE 100 5%	1/10W
R149	1-216-025-00	METAL GLAZE 100 5%	1/10W	R224	1-216-025-00	METAL GLAZE 100 5%	1/10W
R150	1-216-113-00	METAL GLAZE 470K 5%	1/10W	R225	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R151	1-218-755-11	METAL CHIP 130K 0.50%	1/10W	R226	1-216-025-00	METAL GLAZE 100 5%	1/10W
R152	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R227	1-216-025-00	METAL GLAZE 100 5%	1/10W
R153	1-216-113-00	METAL GLAZE 470K 5%	1/10W	R228	1-216-025-00	METAL GLAZE 100 5%	1/10W
				R229	1-216-025-00	METAL GLAZE 100 5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R230	1-216-025-00	METAL GLAZE 100 5%	1/10W
R231	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R232	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R233	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R235	1-216-295-00	CONDUCTOR, CHIP	
R238	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R239	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R240	1-216-295-00	CONDUCTOR, CHIP	
R241	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R243	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R244	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R245	1-216-039-00	METAL GLAZE 390 5%	1/10W
R246	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R248	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R250	1-216-295-00	CONDUCTOR, CHIP	
R251	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R252	1-216-295-00	CONDUCTOR, CHIP	
R255	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R256	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R257	1-216-041-00	METAL GLAZE 470 5%	1/10W
R258	1-216-041-00	METAL GLAZE 470 5%	1/10W
R259	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R260	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R261	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R262	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R263	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R264	1-216-357-00	METAL OXIDE 4.7 5%	1W F
R265	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R266	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R267	1-216-357-00	METAL OXIDE 4.7 5%	1W F
R268	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R269	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R270	1-216-295-00	CONDUCTOR, CHIP	
R271	1-216-295-00	CONDUCTOR, CHIP	
R272	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R273	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R274	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R275	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R276	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R277	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
R278	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R279	1-216-043-91	METAL GLAZE 560 5%	1/10W
R280	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R281	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R282	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R283	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R284	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R285	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R286	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R287	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R288	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R289	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R290	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R291	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R292	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R293	1-216-073-71	METAL GLAZE 10K 5%	1/10W
R294	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R295	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1101	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1102	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1103	1-216-073-00	METAL GLAZE 10K 5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1104	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1105	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1106	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1107	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1108	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1110	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1111	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1112	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1113	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1115	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R1119	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1120	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1121	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1123	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1128	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R1129	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1130	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1131	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1133	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1136	1-216-121-91	METAL GLAZE 1M 5%	1/10W
R1137	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1139	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1140	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1143	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1144	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1145	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1146	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1147	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1148	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1149	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1151	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1152	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1154	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1155	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1156	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1157	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1158	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R1159	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1160	1-216-295-00	CONDUCTOR, CHIP	
R1162	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1164	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1165	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1166	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1167	1-216-037-00	METAL GLAZE 330 5%	1/10W
R1168	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1169	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1170	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1171	1-216-295-00	CONDUCTOR, CHIP	
R1172	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1173	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1174	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1175	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1176	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1177	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1178	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1179	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1180	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1181	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1182	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1183	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1184	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1185	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1276	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1186	1-216-295-00	CONDUCTOR, CHIP		R1277	1-216-675-11	METAL CHIP 10K 0.50%	1/10W
R1187	1-216-295-00	CONDUCTOR, CHIP		R1278	1-216-675-11	METAL CHIP 10K 0.50%	1/10W
R1190	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1301	1-216-295-00	CONDUCTOR, CHIP	
R1192	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1302	1-216-295-00	CONDUCTOR, CHIP	
R1193	1-216-295-00	CONDUCTOR, CHIP		R1303	1-216-295-00	CONDUCTOR, CHIP	
R1194	1-216-295-00	CONDUCTOR, CHIP		R1304	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1195	1-216-001-00	METAL GLAZE 10 5%	1/10W	R1306	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1196	1-216-295-00	CONDUCTOR, CHIP		R1308	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1201	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1310	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1202	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1312	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1204	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R1313	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1205	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1315	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1206	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R1318	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1207	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1321	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1208	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R1324	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1209	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1327	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1210	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1328	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1211	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1329	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1212	1-216-029-00	METAL GLAZE 150 5%	1/10W	R1330	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1215	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1331	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1216	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1332	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1220	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1333	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1221	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1334	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R1222	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1335	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1223	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1336	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1226	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1337	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1227	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1338	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1237	1-216-295-00	CONDUCTOR, CHIP		R1339	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1238	1-216-295-00	CONDUCTOR, CHIP		R1340	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W
R1239	1-216-295-00	CONDUCTOR, CHIP		R1341	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1244	1-216-039-00	METAL GLAZE 390 5%	1/10W	R1342	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R1245	1-216-039-00	METAL GLAZE 390 5%	1/10W	R1343	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R1246	1-216-039-00	METAL GLAZE 390 5%	1/10W	R1344	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1247	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1345	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R1248	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1346	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1249	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1347	1-216-295-00	CONDUCTOR, CHIP	
R1250	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1348	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R1251	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1349	1-216-101-00	METAL GLAZE 150K 5%	1/10W
R1252	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1350	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1253	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1351	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1254	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1352	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1255	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1353	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1256	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1354	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1257	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1355	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R1258	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1360	1-216-631-11	METAL CHIP 150 0.50%	1/10W
R1259	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1361	1-216-631-11	METAL CHIP 150 0.50%	1/10W
R1260	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1362	1-216-631-11	METAL CHIP 150 0.50%	1/10W
R1261	1-218-758-91	METAL CHIP 180K 0.50%	1/10W	R1363	1-216-631-11	METAL CHIP 150 0.50%	1/10W
R1262	1-216-699-11	METAL CHIP 100K 0.50%	1/10W	R1364	1-216-631-11	METAL CHIP 150 0.50%	1/10W
R1263	1-216-683-11	METAL CHIP 22K 0.50%	1/10W	R1365	1-216-631-11	METAL CHIP 150 0.50%	1/10W
R1264	1-216-673-11	METAL CHIP 8.2K 0.50%	1/10W	R1366	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R1265	1-216-699-11	METAL CHIP 100K 0.50%	1/10W	R1367	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R1268	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R1368	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R1269	1-216-669-91	METAL GLAZE 5.6K 5%	1/10W	R1369	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R1270	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R1370	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R1271	1-216-669-11	METAL CHIP 5.6K 0.50%	1/10W	R1371	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R1272	1-216-667-11	METAL CHIP 4.7K 0.50%	1/10W	R1372	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1273	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1373	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1274	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1374	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1275	1-216-075-00	METAL GLAZE 12K 5%	1/10W				

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R1376	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1377	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1378	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1379	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1380	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1381	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1382	1-216-009-00	METAL GLAZE 22 5%	1/10W
R1383	1-216-009-00	METAL GLAZE 22 5%	1/10W
R1384	1-216-009-00	METAL GLAZE 22 5%	1/10W
R1392	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1393	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1394	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1395	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1396	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1397	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1398	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1399	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1400	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1401	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1402	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1403	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1404	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1405	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1406	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1407	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1408	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1409	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1410	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1411	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1412	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1413	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1414	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1415	1-216-295-00	CONDUCTOR, CHIP	
R1416	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1417	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1418	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1420	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R1421	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1422	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1428	1-216-295-00	CONDUCTOR, CHIP	
R1429	1-216-295-00	CONDUCTOR, CHIP	
R1430	1-216-295-00	CONDUCTOR, CHIP	
R1431	1-216-295-00	CONDUCTOR, CHIP	
R1432	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1433	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1434	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1435	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1436	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1437	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1438	1-216-631-11	METAL CHIP 150 0.50%	1/10W
R1439	1-216-631-11	METAL CHIP 150 0.50%	1/10W
R1440	1-216-631-11	METAL CHIP 150 0.50%	1/10W
R1441	1-216-295-00	CONDUCTOR, CHIP	
R1442	1-216-295-00	CONDUCTOR, CHIP	
R1443	1-216-295-00	CONDUCTOR, CHIP	
R1444	1-216-655-11	METAL CHIP 1.5K 0.50%	1/10W
R1445	1-216-655-11	METAL CHIP 1.5K 0.50%	1/10W
R1446	1-216-655-11	METAL CHIP 1.5K 0.50%	1/10W
R1447	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1448	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1449	1-216-049-00	METAL GLAZE 1K 5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1450	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1451	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1452	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1453	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1454	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1455	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1456	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1460	1-216-641-11	METAL CHIP 390 0.50%	1/10W
R1461	1-216-647-11	METAL CHIP 680 0.50%	1/10W
R1462	1-216-295-00	CONDUCTOR, CHIP	
R1464	1-216-295-00	CONDUCTOR, CHIP	
R1465	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1466	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1467	1-216-017-91	METAL GLAZE 47 5%	1/10W
R1468	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1469	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1470	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1471	1-216-659-11	METAL CHIP 2.2K 0.50%	1/10W
R1472	1-216-659-11	METAL CHIP 2.2K 0.50%	1/10W
R1473	1-216-659-11	METAL CHIP 2.2K 0.50%	1/10W
R2108	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2109	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2111	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R2112	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R2114	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2115	1-216-057-71	METAL GLAZE 2.2K 5%	1/10W
R2116	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2117	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2118	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2119	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2120	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2121	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2122	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R2123	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2124	1-247-807-31	CARBON 100 5%	1/4W
R2128	1-216-295-00	CONDUCTOR, CHIP	
R2131	1-216-295-00	CONDUCTOR, CHIP	
R2134	1-216-295-00	CONDUCTOR, CHIP	
R2135	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R2136	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2137	1-216-295-00	CONDUCTOR, CHIP	
R2138	1-216-295-00	CONDUCTOR, CHIP	
R2139	1-216-295-00	CONDUCTOR, CHIP	
R2140	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R2141	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R2142	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2145	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2146	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2147	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2148	1-216-295-00	CONDUCTOR, CHIP	
R2149	1-216-295-00	CONDUCTOR, CHIP	
R2150	1-216-295-00	CONDUCTOR, CHIP	
R2153	1-216-295-71	CONDUCTOR, CHIP	
R2158	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2159	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2160	1-216-675-11	METAL CHIP 10K 0.50%	1/10W
R2161	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R2162	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2163	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R2501	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2502	1-216-049-00	METAL GLAZE 1K 5%	1/10W

A	A1	C
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REF.NO.	PART NO.	DESCRIPTION	REMARK
R2503	1-216-033-00	METAL GLAZE 220 5%	1/10W
R2504	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2505	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
R2506	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2507	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2508	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R2509	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
R2511	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R2512	1-216-695-11	METAL CHIP 68K 0.50%	1/10W
R2513	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R2515	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2516	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2517	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2518	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2519	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2520	1-216-683-11	METAL CHIP 22K 0.50%	1/10W
< TUNER >			
TU101	1-693-340-21	TUNER/VIF (AEP)	
TU102	1-693-340-21	TUNER/VIF (AEP)	
< CRYSTAL >			
X201	1-760-628-11	VIBRATOR, CRYSTAL	
X1105	1-760-551-21	VIBRATOR, CERAMIC	
X1107	1-527-997-21	VIBRATOR, CRYSTAL	
X2501	1-567-970-31	VIBRATOR, CRYSTAL	

*A-1632-661-A A1 BOARD, COMPLETE			

< CAPACITOR >			
C2201	1-126-933-11	ELECT 100MF	20% 16V
C2202	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2204	1-126-933-11	ELECT 100MF	20% 16V
C2205	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2206	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C2207	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C2208	1-126-933-11	ELECT 100MF	20% 16V
C2209	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
< CONNECTOR >			
CN2201	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P	
< FERRITE BEAD >			
FB2201	1-414-553-11	INDUCTOR 0UH	
< ENCAPSULATED FILTER >			
FL2201	1-408-409-00	INDUCTOR 10UH	
FL2202	1-408-409-00	INDUCTOR 10UH	
FL2203	1-236-071-11	ENCAPSULATED COMPONENT	
FL2204	1-236-071-11	ENCAPSULATED COMPONENT	
< IC >			
IC2201	8-759-426-56	IC MB814400C-70PJN-ER	
IC2202	8-759-269-92	IC SN74HCU04ANS-E20	
IC2203	8-759-478-45	IC TMS57053	
< RESISTOR >			
R2203	1-216-121-91	METAL GLAZE 1M 5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R2204	1-216-029-00	METAL GLAZE 150 5%	1/10W
R2205	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2206	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2207	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2208	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2209	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2210	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2211	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2212	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2213	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2214	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2215	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2216	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2217	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2218	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2219	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2220	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2222	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2225	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2227	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2228	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2229	1-414-553-11	INDUCTOR 0UH	
R2232	1-414-553-11	INDUCTOR 0UH	
R2233	1-414-553-11	INDUCTOR 0UH	
R2235	1-414-553-11	INDUCTOR 0UH	
R2236	1-414-553-11	INDUCTOR 0UH	
R2237	1-414-553-11	INDUCTOR 0UH	
R2238	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2239	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2240	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2241	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2242	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2243	1-216-025-00	METAL GLAZE 100 5%	1/10W
< CRYSTAL >			
X2201	1-567-970-11	VIBRATOR, CRYSTAL	

*A-1638-110-A C BOARD, COMPLETE			

4-382-854-11 SCREW (M3X10), P, SW (+)			
< CAPACITOR >			
C701	1-107-967-11	ELECT 1MF	20% 400V
C702	1-107-967-11	ELECT 1MF	20% 400V
C703	1-107-967-11	ELECT 1MF	20% 400V
C704	1-102-129-00	CERAMIC 0.01MF	10% 50V
C705	1-128-528-11	ELECT 470MF	20% 16V
C706	1-128-528-11	ELECT 470MF	20% 16V
C707	1-128-528-11	ELECT 470MF	20% 16V
C708	1-102-157-00	CERAMIC 560PF	10% 500V
C709	1-102-157-00	CERAMIC 560PF	10% 500V
C710	1-102-157-00	CERAMIC 560PF	10% 500V
C711	1-107-907-11	ELECT 22MF	20% 50V
C712	1-162-116-00	CERAMIC 680PF	10% 2KV
C713	1-162-115-00	CERAMIC 330PF	10% 2KV
C714	1-162-116-00	CERAMIC 680PF	10% 2KV
C715	1-102-129-00	CERAMIC 0.01MF	10% 50V
C716	1-102-129-00	CERAMIC 0.01MF	10% 50V
C717	1-107-902-11	ELECT 1MF	20% 50V

The components identified by shading and marked Δ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

C **D1**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C718	1-107-652-11	ELECT 10MF 20%	250V	R706	1-247-863-91	CARBON 22K 5%	1/4W
C719	1-162-116-00	CERAMIC 680PF 10%	2KV	R707	1-247-863-91	CARBON 22K 5%	1/4W
C727	1-136-207-11	FILM 0.047MF 10%	400V	R708	1-247-863-91	CARBON 22K 5%	1/4W
				R709	1-249-415-11	CARBON 680 5%	1/4W
C728	1-136-207-11	FILM 0.047MF 10%	400V	R710	1-249-415-11	CARBON 680 5%	1/4W
C729	1-136-207-11	FILM 0.047MF 10%	400V				
C730	1-102-947-00	CERAMIC 10PF 0.5PF	50V	R711	1-249-415-11	CARBON 680 5%	1/4W
C731	1-102-942-00	CERAMIC 5PF 0.5PF	50V	R712	1-249-421-11	CARBON 2.2K 5%	1/4W
< CONNECTOR >				R713	1-249-418-11	CARBON 1.2K 5%	1/4W
CN701	1-564-511-11	PLUG, CONNECTOR 8P		R714	1-249-417-11	CARBON 1K 5%	1/4W
CN703	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		R715	1-249-417-11	CARBON 1K 5%	1/4W
CN704	1-695-915-11	TAB (CONTACT)					
< DIODE >				R716	1-249-417-11	CARBON 1K 5%	1/4W
D701	8-719-991-33	DIODE 1SS133T-77		R717	1-249-417-11	CARBON 1K 5%	1/4W
D702	8-719-901-83	DIODE 1SS83		R718	1-249-417-11	CARBON 1K 5%	1/4W
D703	8-719-901-83	DIODE 1SS83		R719	1-249-417-11	CARBON 1K 5%	1/4W
D704	8-719-901-83	DIODE 1SS83		R720	1-215-926-00	METAL OXIDE 33K 5%	3W F
D705	8-719-991-33	DIODE 1SS133T-77					
D706	8-719-908-03	DIODE GP08D		R721	1-215-926-00	METAL OXIDE 33K 5%	3W F
D707	8-719-991-33	DIODE 1SS133T-77		R722	1-215-926-00	METAL OXIDE 33K 5%	3W F
D708	8-719-923-60	DIODE MTZJ-T-77-9.1A		R723	1-249-408-11	CARBON 180 5%	1/4W
D709	8-719-921-88	DIODE MTZJ-13B		R724	1-249-408-11	CARBON 180 5%	1/4W
D711	8-719-911-19	DIODE 1SS119-25		R725	1-249-408-11	CARBON 180 5%	1/4W
D712	8-719-911-19	DIODE 1SS119-25		R726	1-202-565-00	SOLID 470 20%	1/2W
D714	8-719-982-96	DIODE MTZJ-T-77-2.2A		R727	1-202-565-00	SOLID 470 20%	1/2W
D715	8-719-911-19	DIODE 1SS119-25		R728	1-202-565-00	SOLID 470 20%	1/2W
D716	8-719-982-96	DIODE MTZJ-T-77-2.2A		R729	1-249-424-11	CARBON 3.9K 5%	1/4W
D721	8-719-031-34	DIODE RGP02-20EG23		R730	1-249-424-11	CARBON 3.9K 5%	1/4W
< IC >							
IC701	8-759-360-83	IC TDA6111Q/N4		R731	1-249-424-11	CARBON 3.9K 5%	1/4W
IC702	8-759-360-83	IC TDA6111Q/N4		R732	1-202-549-00	SOLID 100 20%	1/2W
IC703	8-759-360-83	IC TDA6111Q/N4		R733	1-247-863-91	CARBON 22K 5%	1/4W
< SOCKET >				R734	1-202-549-00	SOLID 100 20%	1/2W
J701	1-540-071-22	SOCKET, CRT		R735	1-249-416-11	CARBON 820 5%	1/4W
< COIL >							
L701	1-410-671-31	INDUCTOR 47UH		R736	1-202-884-11	SOLID 820K 20%	1/2W
L702	1-408-405-00	INDUCTOR 4.7UH		R737	1-202-884-11	SOLID 820K 20%	1/2W
L703	1-408-405-00	INDUCTOR 4.7UH		R738	1-216-397-11	METAL OXIDE 4.7 5%	3W F
L704	1-408-405-00	INDUCTOR 4.7UH		R739	1-216-397-11	METAL OXIDE 4.7 5%	3W F
L705	1-408-409-00	INDUCTOR 10UH		R740	1-249-429-11	CARBON 10K 5%	1/4W
L706	1-535-303-00	LEAD, JUMPER (5.0MM)		R741	1-249-438-11	CARBON 56K 5%	1/4W
< TRANSISTOR >				R742	1-249-417-11	CARBON 1K 5%	1/4W F
Q701	8-729-255-12	TRANSISTOR 2SC2551-0		R747	1-215-911-11	METAL OXIDE 100 5%	3W F
Q702	8-729-255-12	TRANSISTOR 2SC2551-0		< VARIABLE RESISTOR >			
Q703	8-729-255-12	TRANSISTOR 2SC2551-0		RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
Q704	8-729-026-41	TRANSISTOR 2SA933AS-QRT		RV702	1-241-656-21	RES, ADJ, METAL FILM 110M	
Q705	8-729-029-56	TRANSISTOR DTA144ESA		*****			
Q706	8-729-119-78	TRANSISTOR 2SC2785-HFE		*A-1640-280-A	D1 BOARD, COMPLETE (KV-28FD1E/28FD1K)		
< RESISTOR >					*****		
R701	1-249-420-11	CARBON 1.8K 5%	1/4W	*A-1640-277-A	D1 BOARD, COMPLETE (KV-32FD1E/32FD1K)		
R702	1-249-425-11	CARBON 4.7K 5%	1/4W		*****		
R703	1-249-435-11	CARBON 33K 5%	1/4W	4-382-854-11	SCREW (M3X10), P, SW (+)		
R704	1-249-429-11	CARBON 10K 5%	1/4W	< CAPACITOR >			
R705	1-249-430-11	CARBON 12K 5%	1/4W	C1501	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C1502	1-126-967-11	ELECT 47MF	20% 16V
				C1503	1-136-177-00	FILM 1MF	5% 50V
				C1504	1-126-964-11	ELECT 10MF	20% 50V
				C1505	1-126-967-11	ELECT 47MF	20% 50V
				C1506	1-126-967-11	ELECT 47MF	20% 50V
				C1507	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
				C1508	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C1509	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V

D1

REF.NO.	PART NO.	DESCRIPTION	REMARK
C1511	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V
C1512	1-126-967-11	ELECT 47MF	20% 50V
C1513	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1514	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C1515	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C1516	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C1518	1-130-471-00	FILM 0.001MF	2% 50V
C1520	1-126-967-11	ELECT 47MF	20% 50V
C1521	1-163-037-91	CERAMIC CHIP 22000PF	10% 25V
C1522	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V
C1524	1-137-503-11	FILM 100PF	5% 100V
C1525	1-129-716-91	FILM 0.015MF	10% 630V
		(KV-28FD1E/28FD1K)	
	1-137-493-11	FILM 0.0047MF	5% 630V
		(KV-32FD1E/32FD1K)	
C1526	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1528	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C1529	1-102-110-00	CERAMIC 220PF	10% 50V
C1531	1-126-964-11	ELECT 10MF	20% 50V
C1532	1-126-964-11	ELECT 10MF	20% 50V
C1533	1-126-963-11	ELECT 4.7MF	20% 50V
C1534	1-126-964-11	ELECT 10MF	20% 50V
C1535	1-126-960-11	ELECT 1MF	20% 50V
C1537	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V
C1538	1-126-967-11	ELECT 47MF	20% 50V
C1542	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C1543	1-163-809-91	CERAMIC CHIP 47000PF	10% 25V
C1550	1-136-207-11	FILM 0.047MF	10% 250V
C1551	1-115-516-21	FILM 0.33MF	5% 200V
		(KV-28FD1E/28FD1K)	
	1-117-451-21	FILM 0.43MF	5% 200V
		(KV-32FD1E/32FD1K)	
C1552	1-107-505-11	FILM 0.39MF	5% 400V
C1553	1-136-177-00	FILM 1MF	5% 50V
C1554	1-136-177-00	FILM 1MF	5% 50V
C1555	1-126-964-11	ELECT 10MF	20% 50V
C1556	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1557	1-130-471-00	FILM 0.001MF	2% 50V
C1558	1-102-030-00	CERAMIC 330PF	10% 500V
C1560	1-162-117-00	CERAMIC 100PF	10% 500V
C1562	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1563	1-130-471-00	FILM 0.001MF	2% 50V
C1564	1-126-960-11	ELECT 1MF	20% 50V
C1565	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1566	1-126-964-11	ELECT 10MF	20% 50V
C1567	1-126-960-11	ELECT 1MF	20% 50V
C1568	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1569	1-107-714-11	ELECT 10MF	20% 50V
C1570	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V
C1571	1-136-159-00	FILM 0.033MF	5% 50V
C1572	1-130-834-00	MYLAR 1MF	20% 63V
C1573	1-136-153-00	FILM 0.01MF	5% 50V
C1574	1-104-665-11	ELECT 100MF	20% 25V
C1576	1-129-718-91	FILM 0.022MF	10% 630V
		(KV-28FD1E/28FD1K)	
	1-137-499-11	FILM 0.015MF	5% 630V
		(KV-32FD1E/32FD1K)	
C1577	1-137-493-11	FILM 0.0047MF	5% 630V
		(KV-32FD1E/32FD1K)	
C1578	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V
C1587	1-164-346-11	CERAMIC CHIP 1MF	16V
C1589	1-126-959-11	ELECT 0.47MF	20% 50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C1590	1-126-933-11	ELECT 100MF	20% 16V
C1591	1-136-165-00	FILM 0.1MF	5% 50V
C1595	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1596	1-126-964-11	ELECT 10MF	20% 50V
C1598	1-126-967-11	ELECT 47MF	20% 16V
C1599	1-126-967-11	ELECT 47MF	20% 16V
		< CONNECTOR >	
CN1501	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P	
CN1503	*1-564-511-61	PLUG, CONNECTOR 8P	
CN1504	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P	
CN1505	*1-564-520-11	PLUG, CONNECTOR 5P	
		< DIODE >	
D1502	8-719-914-43	DIODE DAN202K	
D1503	8-719-914-43	DIODE DAN202K	
D1504	8-719-914-43	DIODE DAN202K	
D1506	8-719-914-43	DIODE DAN202K	
D1509	8-719-400-36	DIODE MA3047-M	
D1510	8-719-914-43	DIODE DAN202K	
D1511	8-719-979-85	DIODE EGP20G	
D1512	8-719-914-43	DIODE DAN202K	
D1513	8-719-981-94	DIODE MTZJ-2.7A	
D1514	8-719-914-43	DIODE DAN202K	
D1515	8-719-914-43	DIODE DAN202K	
D1516	8-719-914-43	DIODE DAN202K	
D1524	8-719-302-43	DIODE EL1Z	
D1525	8-719-106-53	DIODE MA3100-M	
D1526	8-719-401-22	DIODE MA3220-M	
D1527	8-719-106-71	DIODE RD12M-B2	
D1528	8-719-401-22	DIODE MA3220-M	
D1529	8-719-947-06	DIODE RGP10JPKG23	
D1530	8-719-971-20	DIODE ERC38-06	
D1531	8-719-914-42	DIODE DA204K	
D1532	8-719-914-43	DIODE DAN202K	
D1534	8-719-914-43	DIODE DAN202K	
D1535	8-719-987-87	DIODE ERA85-009	
D1543	8-719-914-42	DIODE DA204K	
D1544	8-719-105-91	DIODE RD5.6M-B2	
D1545	8-719-914-43	DIODE DAN202K-T-146	
D1546	8-719-914-43	DIODE DAN202K-T-146	
D1547	8-719-914-43	DIODE DAN202K-T-146	
D1548	1-216-295-91	CONDUCTOR CHIP	
		< FERRITE BEAD >	
FB1501	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB1502	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
		< IC >	
IC1501	8-759-325-48	IC CA0005AD	
IC1502	8-759-983-69	IC LM358PS	
IC1503	8-759-988-13	IC LM393PS	
IC1504	8-759-988-13	IC LM393PS	
IC1505	8-759-988-13	IC LM393PS	
IC1506	8-759-822-38	IC LA6510	
IC1507	8-759-251-31	IC CA0007AM	
IC1508	8-759-988-13	IC LM393PS	
IC1509	8-749-010-64	PHOTO COUPLER PC123F2	
IC1510	8-759-185-47	IC IR2112	
IC1511	8-752-072-94	IC CXA1875AM-T4	
IC1513	8-759-604-39	IC M5F78M12L	

KV-28FD1/32FD1

D1

The components identified by shading and marked Δ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1515	8-759-983-69	IC LM358PS		R1514	1-216-679-11	METAL CHIP 15K 0.50% 1/10W	
IC1517	8-759-325-48	IC CA0005AD		R1515	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
IC1518	8-759-100-96	IC UPC4558G2		R1516	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
< COIL >				R1517	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
L1501	1-406-987-21	COIL, CHOKE 4.7MMH (KV-28FD1E/28FD1K)		R1518	1-216-041-00	METAL GLAZE 470 5% 1/10W	
	1-406-989-21	COIL, CHOKE 10MMH (KV-32FD1E/32FD1K)		R1519	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
L1504	1-411-557-11	COIL, CHOKE		R1520	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
L1506	1-535-303-00	LEAD, JUMPER (5.0MM)		R1522	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
L1507	1-406-677-11	COIL, CHOKE 10MMH		R1523	1-216-677-11	METAL CHIP 12K 0.50% 1/10W	
L1508	1-412-537-31	INDUCTOR 100UH		R1524	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
L1514	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH		R1525	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
< IC LINK >				R1526	1-216-295-00	CONDUCTOR, CHIP	
PS1501	1-532-637-00	LINK, IC 1.0A (ICP-W25)		R1527	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
< TRANSISTOR >				R1528	1-216-681-11	METAL CHIP 18K 0.50% 1/10W	
Q1501	8-729-620-06	TRANSISTOR 2SC3052-EF		R1529	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
Q1502	8-729-216-22	TRANSISTOR 2SA1162-G		R1530	1-249-417-11	CARBON 1K 5% 1/4W	
Q1503	8-729-216-22	TRANSISTOR 2SA1162-G		R1531	1-218-754-11	METAL CHIP 120K 0.50% 1/10W	
Q1504	8-729-216-22	TRANSISTOR 2SA1162-G		R1532	1-216-670-11	METAL CHIP 6.2K 0.50% 1/10W	
Q1505	8-729-620-06	TRANSISTOR 2SC3052-EF		R1533	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
Q1506	8-729-620-06	TRANSISTOR 2SC3052-EF		R1534	1-216-699-91	METAL CHIP 100K 0.50% 1/10W	
Q1507	8-729-620-06	TRANSISTOR 2SC3052-EF		R1535	1-216-677-11	METAL CHIP 12K 0.50% 1/10W	
Q1508	8-729-026-79	TRANSISTOR IRF1620G		R1536	1-218-759-91	METAL CHIP 200K 0.50% 1/10W	(KV-28FD1E/28FD1K)
Q1509	8-729-216-22	TRANSISTOR 2SA1162-G			1-218-760-91	METAL CHIP 220K 0.5% 1/10W	(KV-32FD1E/32FD1K)
Q1510	8-729-034-09	TRANSISTOR 2SK2518-01MR		R1537	1-216-681-91	METAL CHIP 18K 0.50% 1/10W	(KV-28FD1E/28FD1K)
Q1511	8-729-034-09	TRANSISTOR 2SK2518-01MR			1-216-687-91	METAL CHIP 33K 0.50% 1/10W	(KV-32FD1E/32FD1K)
Q1512	1-801-806-11	TRANSISTOR DTC144EKA		R1538	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q1513	8-729-026-79	TRANSISTOR IRF1620G		R1539	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q1514	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1540	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q1515	8-729-140-97	TRANSISTOR 2SB734-34		R1543	1-249-415-11	CARBON 680 5% 1/4W	
Q1516	8-729-140-97	TRANSISTOR 2SB734-34		R1545	1-216-043-91	METAL GLAZE 560 5% 1/10W	
Q1522	8-729-216-22	TRANSISTOR 2SA1162-G		R1547	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
Q1523	8-729-620-06	TRANSISTOR 2SC3052-EF		R1548	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
Q1524	8-729-620-06	TRANSISTOR 2SC3052-EF		R1549	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q1525	8-729-216-22	TRANSISTOR 2SA1162-G		R1550	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
Q1526	8-729-620-06	TRANSISTOR 2SC3052-EF		R1551	1-216-676-11	METAL CHIP 11K 0.50% 1/10W	
Q1527	8-729-017-06	TRANSISTOR 2SC4793		R1552	1-216-674-11	METAL CHIP 9.1K 0.50% 1/10W	
Q1528	8-729-017-05	TRANSISTOR 2SA1837		R1553	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
Q1529	8-729-620-06	TRANSISTOR 2SC3052-EF		R1554	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
Q1530	8-729-216-22	TRANSISTOR 2SA1162-G		R1555	1-216-295-00	CONDUCTOR, CHIP	
Q1531	8-729-216-22	TRANSISTOR 2SA1162-G		R1556	1-216-025-00	METAL GLAZE 100 5% 1/10W	
< RESISTOR >				R1559	1-216-099-00	METAL GLAZE 120K 5% 1/10W	
R1500	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R1560	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1501	1-216-089-00	METAL GLAZE 47K 5% 1/10W		R1561	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R1502	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R1562	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1504	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		R1563	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R1505	1-216-695-11	METAL CHIP 68K 0.50% 1/10W		R1564	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1506	1-216-651-11	METAL CHIP 1K 0.50% 1/10W		R1565	1-216-689-11	METAL CHIP 39K 0.50% 1/10W	
R1507	1-216-097-91	METAL GLAZE 100K 5% 1/10W		R1566	1-216-679-11	METAL CHIP 15K 0.50% 1/10W	
R1508	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R1567	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R1509	1-216-097-91	METAL GLAZE 100K 5% 1/10W		R1568	1-216-677-11	METAL CHIP 12K 0.50% 1/10W	
R1510	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R1569	1-216-677-11	METAL CHIP 12K 0.50% 1/10W	
R1511	1-216-097-91	METAL GLAZE 100K 5% 1/10W		R1570	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1512	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R1571	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R1513	1-216-691-91	METAL CHIP 47K 0.05% 1/10W	(KV-28FD1E/28FD1K)	R1572	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
	1-216-687-91	METAL CHIP 33K 0.50% 1/10W	(KV-32FD1E/32FD1K)	R1573	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
				R1574	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
				R1575	1-216-089-00	METAL GLAZE 47K 5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R1576	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1577	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R1578	1-216-295-00	CONDUCTOR, CHIP	
R1579	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R1580	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1581	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1583	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1584	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1587	1-216-079-00	METAL GLAZE 18K 5%	1/10W
R1588	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1589	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1590	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1593	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R1595	1-216-295-00	CONDUCTOR, CHIP	
R1597	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1598	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1599	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1600	1-249-441-11	CARBON 100K 5%	1/4W
R1601	1-249-441-11	CARBON 100K 5%	1/4W
R1602	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R1603	1-249-441-11	CARBON 100K 5%	1/4W F
R1604	1-260-323-71	CARBON 390 5%	1/2W
R1605	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1606	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1607	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1608	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1609	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1610	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1611	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1612	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1613	1-249-385-11	CARBON 2.2 5%	1/4W F
R1614	1-216-396-51	METAL OXIDE 3.9 5%	3W F
R1615	1-216-396-51	METAL OXIDE 3.9 5%	3W F
R1616	1-216-295-00	CONDUCTOR, CHIP	
R1617	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R1618	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1619	1-216-695-11	METAL CHIP 68K 0.50%	1/10W
R1620	1-216-695-11	METAL CHIP 68K 0.50%	1/10W
R1621	1-216-669-11	METAL CHIP 5.6K 0.50%	1/10W
R1622	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R1623	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R1624	1-216-295-00	CONDUCTOR, CHIP	
R1627	1-216-681-11	METAL CHIP 18K 0.50%	1/10W
R1628	1-218-762-11	METAL CHIP 270K 0.50%	1/10W
R1629	1-218-774-11	METAL CHIP 820K 0.50%	1/10W
R1630	1-216-673-91	METAL CHIP 8.2K 0.50%	1/10W (KV-28FD1E/28FD1K)
	1-216-671-91	METAL CHIP 6.8K 0.05%	1/10W (KV-32FD1E/32FD1K)
R1631	1-216-675-91	METAL CHIP 10K 0.50%	1/10W
R1632	1-216-691-11	METAL CHIP 47K 0.50%	1/10W (KV-28FD1E/28FD1K)
	1-216-677-91	METAL CHIP 12K 0.05%	1/10W (KV-32FD1E/32FD1K)
R1633	1-216-675-11	METAL CHIP 10K 0.50%	1/10W
R1635	1-216-047-91	METAL GLAZE 820 5%	1/10W
R1636	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1637	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1639	1-215-911-51	METAL OXIDE 100 5%	3W (KV-28FD1E/28FD1K)
	1-216-474-51	METAL OXIDE 82 5%	3W F (KV-32FD1E/32FD1K)

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1640	1-216-675-11	METAL CHIP 10K 0.50%	1/10W
R1641	1-216-675-91	METAL CHIP 10K 0.50%	1/10W
R1642	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1643	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1646	1-218-762-11	METAL CHIP 270K 0.50%	1/10W
R1649	1-216-696-11	METAL CHIP 75K 0.50%	1/10W
R1650	1-216-696-11	METAL CHIP 75K 0.50%	1/10W
R1651	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1653	1-216-699-11	METAL CHIP 100K 0.50%	1/10W
R1654	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1655	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1656	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R1657	1-215-880-00	METAL OXIDE 10 5%	2W F
R1658	1-249-385-11	CARBON 2.2 5%	1/4W F
R1659	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1660	1-216-295-00	CONDUCTOR, CHIP	
R1661	1-216-295-00	CONDUCTOR, CHIP	
R1662	1-216-295-00	CONDUCTOR, CHIP	
R1663	1-215-921-51	METAL OXIDE 4.7K 5%	3W (KV-28FD1E/28FD1K)
	1-215-920-11	METAL OXIDE 3.3K 5%	3W F (KV-32FD1E/32FD1K)
R1664	1-215-921-51	METAL OXIDE 4.7K 5%	3W (KV-28FD1E/28FD1K)
	1-215-920-11	METAL OXIDE 3.3K 5%	3W F (KV-32FD1E/32FD1K)
R1665	1-215-921-51	METAL OXIDE 4.7K 5%	3W (KV-28FD1E/28FD1K)
	1-215-920-11	METAL OXIDE 3.3K 5%	3W F (KV-32FD1E/32FD1K)
R1666	1-216-699-91	METAL CHIP 100K 0.50%	1/10W (KV-28FD1E/28FD1K)
R1666	1-218-762-91	METAL CHIP 270K 0.50%	1/10W (KV-32FD1E/32FD1K)
R1667	1-216-101-00	METAL GLAZE 150K 5%	1/10W
R1692	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R1695	1-216-101-00	METAL GLAZE 150K 5%	1/10W
R1696	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R1697	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1698	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R1699	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R1700	1-216-091-00	METAL GLAZE 56K 5%	1/10W

< VARIABLE RESISTOR >

RV1503 1-238-551-11 RES, ADJ, CARBON 220K

*A-1640-279-A D BOARD, COMPLETE (KV-28FD1E/28FD1K)
******A-1640-278-A D BOARD, COMPLETE (KV-32FD1E/32FD1K)
*****4-200-399-01 SPACER, IC
4-201-023-01 SPACER, INSULATING
4-202-373-01 SPRING, IC
4-382-854-11 SCREW (M3X10), P, SW (+)

< CAPACITOR >

C501	1-123-024-21	ELECT 33MF	160V
C502	1-136-207-11	FILM 0.047MF	10% 250V
C503	1-128-527-11	ELECT 330MF	20% 25V
C504	1-128-527-11	ELECT 330MF	20% 25V

KV-28FD1/32FD1

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Ne les remplacer que par une pièce portant le numéro spécifié.

D

REF.NO.	PART NO.	DESCRIPTION	REMARK
C505	1-102-212-00	CERAMIC 820PF 10% 500V	
C508	1-162-116-00	CERAMIC 680PF 10% 2KV	
C509	1-162-116-00	CERAMIC 680PF 10% 2KV	
C510	1-136-558-11	FILM 0.0039MF 10% 400V	
C511	1-117-950-11	FILM 18000PF 3% 2.5KV	
		(KV-28FD1E/28FD1K)	
	1-113-582-11	FILM 17000PF 3% 1.2V	
		(KV-32FD1E/32FD1K)	
C512	1-137-235-51	FILM 0.018MF 10% 630V	
C513	1-115-177-11	FILM 6.8MF 5% 160V	
C514	1-129-702-00	FILM 0.001MF 10% 400V	
C516	1-115-519-11	FILM 0.56MF 5% 250V	
		(KV-28FD1E/28FD1K)	
	1-115-517-21	FILM 0.39MF 5% 250V	
		(KV-32FD1E/32FD1K)	
C518	1-535-303-00	LEAD, JUMPER (5.0MM)	
C519	1-137-104-11	FILM 0.033MF 10% 250V	
C520	1-126-933-11	ELECT 100MF 20% 16V	
C521	1-102-002-91	CERAMIC 680PF 10% 50V	
C525	1-126-964-11	ELECT 10MF 20% 50V	
C528	1-102-030-00	CERAMIC 330PF 10% 500V	
C535	1-107-655-11	ELECT 47MF 20% 250V	
C536	1-102-228-00	CERAMIC 470PF 10% 500V	
C537	1-102-228-00	CERAMIC 470PF 10% 500V	
C538	1-102-228-00	CERAMIC 470PF 10% 500V	
C541	1-106-375-12	MYLAR 0.022MF 10% 250V	
C548	1-162-558-91	CERAMIC 100PF 10% 2KV	
		(KV-28FD1E/28FD1K)	
C548	1-162-129-00	CERAMIC 150PF 10% 2KV	
		(KV-32FD1E/32FD1K)	
C549	1-162-558-91	CERAMIC 100PF 10% 2KV	
		(KV-28FD1E/28FD1K)	
C549	1-162-129-00	CERAMIC 150PF 10% 2KV	
		(KV-32FD1E/32FD1K)	
C552	1-126-968-11	ELECT 100MF 20% 50V	
C554	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C555	1-126-941-11	ELECT 470MF 20% 25V	
C556	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C557	1-126-941-11	ELECT 470MF 20% 25V	
C560	1-106-228-00	MYLAR 0.22MF 10% 100V	
C561	1-106-220-00	MYLAR 0.1MF 10% 100V	
C562	1-130-785-11	MYLAR 0.47MF 10% 100V	
C573	1-162-115-91	CERAMIC 330PF 10% 2KV	
		(KV-28FD1E/28FD1K)	
C574	1-136-343-91	FILM 0.0033MF 5% 500V	
		(KV-28FD1E/28FD1K)	
	1-130-062-51	FILM 0.0056MF 5% 630V	
		(KV-32FD1E/32FD1K)	
C576	1-129-702-00	FILM 0.001MF 10% 400V	
C580	1-102-030-91	CERAMIC 330PF 10% 500V	
C581	1-136-205-11	FILM 0.022MF 10% 400V	
C582	1-137-536-11	FILM 0.0022MF 5% 630V	
C583	1-130-785-11	FILM 0.47MF 10% 100V	
C600	1-136-519-12	FILM 0.47MF 20% 300V	
C601	1-113-890-61	CERAMIC 0.0022MF 20% 250V	
C602	1-113-890-61	CERAMIC 0.0022MF 20% 250V	
C603	1-136-518-12	FILM 0.33MF 20% 300V	
C604	1-164-625-11	CERAMIC 680PF 10% 500V	
C605	1-104-664-11	ELECT 47MF 20% 25V	
C606	1-162-599-12	CERAMIC 0.0047MF 250V	

REF.NO.	PART NO.	DESCRIPTION	REMARK
C607	1-535-143-00	LEAD, JUMPER (10MM)	
		(KV-28FD1E/28FD1K)	
	1-161-744-00	CERAMIC 0.01MF 400V	
		(KV-32FD1E/32FD1K)	
C609	1-104-664-11	ELECT 47MF 20% 25V	
C610	1-162-599-12	CERAMIC 0.0047MF 250V	
C611	1-162-580-51	CERAMIC 0.01MF 400V	
C613	1-162-599-12	CERAMIC 0.0047MF 250V	
C614	1-164-645-11	CERAMIC 1000PF 10% 500V	
C616	1-117-753-11	ELECT 470MF 20% 450V	
C618	1-136-173-00	FILM 0.47MF 5% 50V	
C620	1-136-171-00	FILM 0.33MF 5% 50V	
C621	1-136-171-00	FILM 0.33MF 5% 50V	
C623	1-126-968-11	ELECT 100MF 20% 50V	
C624	1-126-965-11	ELECT 22MF 20% 50V	
C625	1-128-548-11	ELECT 4700MF 20% 25V	
C626	1-128-548-11	ELECT 4700MF 20% 25V	
C627	1-126-936-11	ELECT 3300MF 20% 16V	
C628	1-126-943-11	ELECT 2200MF 20% 25V	
C629	1-110-626-11	ELECT 330MF 20% 160V	
C630	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C631	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C632	1-126-935-11	ELECT 470MF 20% 16V	
C633	1-137-368-91	CERAMIC 0.0047MF 10% 50V	
C634	1-108-413-91	MYLAR 0.0022MF 10% 200V	
C639	1-164-625-11	CERAMIC 680PF 10% 500V	
C640	1-136-173-00	FILM 0.47MF 5% 50V	
C642	1-128-578-11	ELECT 1MF 20% 100V	
C651	1-126-969-11	ELECT 220MF 20% 50V	
C652	1-104-664-11	ELECT 47MF 20% 25V	
C653	1-107-681-91	ELECT 33MF 20% 450V	
C655	1-126-967-11	ELECT 47MF 20% 50V	
C657	1-126-968-11	ELECT 100MF 20% 50V	
C658	1-128-562-11	ELECT 47MF 20% 100V	
C659	1-126-971-11	ELECT 470MF 20% 50V	
C660	1-128-560-11	ELECT 22MF 20% 100V	
C661	1-104-664-11	ELECT 47MF 20% 25V	
C671	1-126-964-11	ELECT 10MF 20% 50V	
C672	1-136-165-00	FILM 0.1MF 5% 50V	
C673	1-126-967-11	ELECT 47MF 20% 50V	
C674	1-164-625-11	CERAMIC 680PF 10% 500V	
C675	1-164-625-11	CERAMIC 680PF 10% 500V	
C677	1-136-165-00	FILM 0.1MF 5% 50V	
C680	1-162-558-11	CERAMIC 100PF 10% 2KV	
C681	1-104-664-11	ELECT 47MF 20% 25V	
C683	1-126-965-91	ELECT 22MF 20% 50V	
C684	1-126-940-91	ELECT 330MF 20% 50V	
< CONNECTOR >			
CN501	1-900-902-84	CONNECTOR ASSY MICRO 7P	
CN502	*1-580-798-11	CONNECTOR PIN (DY) 6P	
CN503	1-695-915-11	TAB (CONTACT)	
CN504	1-900-902-85	CONNECTOR ASSY, MICRO 8P	
CN505	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
CN507	*1-568-877-51	PIN, CONNECTOR 2P	
CN509	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
CN510	1-900-902-82	CONNECTOR ASSY, MICRO 5P	
CN511	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
CN601	1-695-915-11	TAB (CONTACT)	
CN602	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	

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KV-28FD1/32FD1

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
CN604	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 2P		FB602	1-535-303-00	LEAD, JUMPER (5.0MM)	
CN605	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 2P		FB603	1-535-303-00	LEAD, JUMPER (5.0MM)	
CN606	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P				< IC >	
CN607	1-900-902-83	CONNECTOR ASSY, MICRO 6P		IC502	8-759-192-71	IC STV9379	
CN608	1-900-902-84	CONNECTOR ASSY, MICRO 7P		IC600	8-759-098-24	IC P030RV11	
CN609	1-900-902-85	CONNECTOR ASSY, MICRO 5P		IC601	8-719-018-64	PHOTO COUPLER PC123F2	
CN610	1-900-902-86	CONNECTOR ASSY, MICRO 7P		IC602	8-729-043-26	TRANSISTOR MK0841T-F	
		< DIODE >		IC603	1-810-050-11	POWER MODULE DM-47	
D502	8-719-979-99	DIODE ERD08M-15		IC604	8-759-908-15	IC TL431CLP	
D503	8-719-052-09	DIODE FMG-36S-LF024-104		IC651	8-759-487-72	IC TOP222Y-BB	
D505	8-719-908-03	DIODE GP08D				< PROTECTOR MODULE >	
D506	8-719-908-03	DIODE GP08D		PS601	1-801-558-21	PROTECTOR MODULE 2.5A MP250	
D510	8-719-979-85	DIODE EGP20G		PS602	1-801-558-21	PROTECTOR MODULE 2.5A MP250	
		< COIL >		PS603	1-801-558-21	PROTECTOR MODULE 2.5A MP250	
D511	8-719-302-43	DIODE EL1Z		PS604	1-801-558-21	PROTECTOR MODULE 2.5A MP250	
D512	8-719-510-64	DIODE S2LA20F				< IC LINK >	
D513	8-719-510-64	DIODE S2LA20F		PS605	1-532-727-11	LINK, IC 0.25A (ICP-N5)	
D514	8-719-908-03	DIODE GP08D				< TRANSISTOR >	
D516	8-719-110-41	DIODE RD15ES-B2		Q501	8-729-119-80	TRANSISTOR 2SC2688-LK	
		< DIODE >		Q502	8-729-821-07	TRANSISTOR 2SC3997CA	
D520	8-719-970-87	DIODE ERA38-06		Q504	8-729-026-79	TRANSISTOR IRFI620G	
D521	8-719-970-87	DIODE ERA38-06		Q505	8-729-011-06	TRANSISTOR 2SC3840K	
D600	8-719-911-19	DIODE 1SS119-25		Q506	8-729-029-86	TRANSISTOR DTC124ESA	
D601	8-719-510-35	DIODE D2SBA60F				< IC LINK >	
D602	8-719-510-09	DIODE D10SC6M		Q507	8-729-119-80	TRANSISTOR 2SC2688-LK	
		< DIODE >		Q508	8-729-122-12	TRANSISTOR 2SA1221-L	
D603	8-719-510-53	DIODE D4SB60L		Q601	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
D605	8-719-979-58	DIODE EGP10D		Q602	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D606	8-719-028-45	DIODE D2L20U		Q604	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D608	8-719-510-64	DIODE S2LA20F				< IC LINK >	
D609	8-719-911-19	DIODE 1SS119-25		Q605	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
		< DIODE >		Q606	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D610	8-719-047-31	DIODE RBA-402L		Q607	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D611	8-719-510-12	DIODE D10SC4M				< TRANSISTOR >	
D612	8-719-510-12	DIODE D10SC4M		Q501	8-729-119-80	TRANSISTOR 2SC2688-LK	
D613	8-719-500-71	DIODE D8LC40		Q502	8-729-821-07	TRANSISTOR 2SC3997CA	
D614	8-719-911-19	DIODE 1SS119-25		Q504	8-729-026-79	TRANSISTOR IRFI620G	
		< DIODE >		Q505	8-729-011-06	TRANSISTOR 2SC3840K	
D618	8-719-911-19	DIODE 1SS119-25		Q506	8-729-029-86	TRANSISTOR DTC124ESA	
D620	8-719-991-33	DIODE 1SS133T-77				< IC LINK >	
D622	8-719-991-33	DIODE 1SS133T-77		Q507	8-729-119-80	TRANSISTOR 2SC2688-LK	
D623	8-719-991-33	DIODE 1SS133T-77		Q508	8-729-122-12	TRANSISTOR 2SA1221-L	
D624	8-719-991-33	DIODE 1SS133T-77		Q601	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
		< DIODE >		Q602	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D626	8-719-109-97	DIODE RD6.8ES-B2		Q604	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D654	8-719-059-23	DIODE P6KE200AG23				< IC LINK >	
D655	8-719-979-64	DIODE UF4005PKG23		Q605	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
D656	8-719-028-45	DIODE D2L20U		Q606	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D657	8-719-921-88	DIODE MTZJ-13B		Q607	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		< DIODE >				< TRANSISTOR >	
D658	8-719-510-64	DIODE S2LA20F		Q501	8-729-119-80	TRANSISTOR 2SC2688-LK	
D659	8-719-911-19	DIODE 1SS119-25		Q502	8-729-821-07	TRANSISTOR 2SC3997CA	
D660	8-719-982-27	DIODE MTZJ-33C		Q504	8-729-026-79	TRANSISTOR IRFI620G	
D661	8-719-991-33	DIODE 1SS133T-77		Q505	8-729-011-06	TRANSISTOR 2SC3840K	
D662	8-719-991-33	DIODE 1SS133T-77		Q506	8-729-029-86	TRANSISTOR DTC124ESA	
		< DIODE >				< IC LINK >	
D663	8-719-991-33	DIODE 1SS133T-77		Q507	8-729-119-80	TRANSISTOR 2SC2688-LK	
D664	8-719-911-19	DIODE 1SS119-25		Q508	8-729-122-12	TRANSISTOR 2SA1221-L	
D665	8-719-911-19	DIODE 1SS119-25		Q601	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
D666	8-719-109-19	DIODE RD5.6ES-B2		Q602	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D667	8-719-911-19	DIODE 1SS119-25		Q604	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		< DIODE >				< IC LINK >	
D668	8-719-109-89	DIODE RD5.6ES-B2		Q605	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
		< FERRITE BEAD >		Q606	8-729-119-78	TRANSISTOR 2SC2785-HFE	
FB600	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		Q607	8-729-119-78	TRANSISTOR 2SC2785-HFE	
FB601	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH				< TRANSISTOR >	

D

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q608	8-729-026-41	TRANSISTOR 2SA933AS-ORT		R609	1-249-417-11	CARBON 1K 5%	1/4W F
Q609	8-729-029-56	TRANSISTOR DTA144ESA		R610	1-247-891-00	CARBON 330K 5%	1/4W
Q610	8-729-029-86	TRANSISTOR DTC124ESA		R611	1-247-891-00	CARBON 330K 5%	1/4W
Q611	8-729-029-56	TRANSISTOR DTA144ESA		R612	1-216-369-00	METAL OXIDE 1 5%	2W F
Q612	8-729-119-78	TRANSISTOR 2SC2785-HFE		R613	1-207-905-00	WIREWOUND 0.27 10%	2W F
Q613	8-729-029-66	TRANSISTOR DTC114ESA		R614	1-247-891-00	CARBON 330K 5%	1/4W
Q617	8-729-119-78	TRANSISTOR 2SC2785-HFE		R615	1-247-891-00	CARBON 330K 5%	1/4W
Q618	8-729-029-66	TRANSISTOR DTC114ESA		R616	1-216-369-00	METAL OXIDE 1 5%	2W F
Q619	8-729-119-78	TRANSISTOR 2SC2785-HFE		R618	1-249-425-11	CARBON 4.7K 5%	1/4W
				R620	1-249-429-11	CARBON 10K 5%	1/4W
< RESISTOR >				R623	1-249-429-11	CARBON 10K 5%	1/4W
R502	1-216-481-51	METAL OXIDE 1.2K 5%	3W F	R624	1-247-895-91	CARBON 470K 5%	1/4W
R503	1-216-481-51	METAL OXIDE 1.2K 5%	3W F	R625	1-249-421-11	CARBON 2.2K 5%	1/4W
R505	1-216-487-11	METAL OXIDE 12K 5%	3W F	R626	1-249-429-11	CARBON 10K 5%	1/4W
R506	1-249-411-11	CARBON 330 5%	1/4W	R628	1-247-807-31	CARBON 100 5%	1/4W
R507	1-247-843-11	CARBON 3.3K 5%	1/4W	R629	1-249-425-11	CARBON 4.7K 5%	1/4W
R509	1-215-905-11	METAL OXIDE 10 5%	3W F	R630	1-249-417-11	CARBON 1K 5%	1/4W F
R510	1-216-476-11	METAL OXIDE 180 5%	3W F	R631	1-249-417-11	CARBON 1K 5%	1/4W
R511	1-216-434-11	METAL OXIDE 1.8K 5%	1W F	R632	1-249-417-11	CARBON 1K 5%	1/4W
R517	1-202-972-61	FUSIBLE 1 5%	1/4W F	R633	1-249-417-11	CARBON 1K 5%	1/4W
R518	1-249-377-11	CARBON 0.47 5%	1/4W F	R634	1-215-479-00	METAL 270K 1%	1/4W
R519	1-249-377-11	CARBON 0.47 5%	1/4W F	R635	1-215-438-00	METAL 5.1K 1%	1/4W
R520	1-214-907-00	METAL 56K 1%	1/2W	R636	1-249-417-11	CARBON 1K 5%	1/4W
R521	1-535-303-00	LEAD, JUMPER (5.0MM)		R638	1-215-927-00	METAL OXIDE 47K 5%	3W F
R522	1-535-143-31	LEAD, JUMPER (15.0MM)		R639	1-249-429-11	CARBON 10K 5%	1/4W
R523	1-215-911-11	METAL OXIDE 100 5%	3W F	R640	1-202-933-61	FUSIBLE 0.1 10%	1/2W F
R533	1-249-417-11	CARBON 1K 5%	1/4W	R641	1-260-110-91	CARBON 8.2K 5%	1/2W
R534	1-249-441-11	CARBON 100K 5%	1/4W	R642	1-249-429-11	CARBON 10K 5%	1/4W
R535	1-249-441-11	CARBON 100K 5%	1/4W	R643	1-249-443-11	CARBON 0.47 5%	1/4W F
R536	1-249-441-11	CARBON 100K 5%	1/4W	R644	1-220-797-11	WIREWOUND 0.47 5%	10W F
R543	1-215-894-11	METAL OXIDE 2.2K 5%	2W F	R650	1-249-425-11	CARBON 4.7K 5%	1/4W
R544	1-249-424-11	CARBON 3.9K 5%	1/4W	R651	1-215-927-00	METAL OXIDE 47K 5%	3W F
R545	1-247-881-00	CARBON 120K 5%	1/4W	R652	1-249-429-11	CARBON 10K 5%	1/4W
R550	1-249-389-11	CARBON 4.7 5%	1/4W F	R654	1-211-771-11	FUSIBLE 4.7 5%	1/4W F
R554	1-215-449-00	METAL 15K 1%	1/4W	R656	1-247-791-91	CARBON 22 5%	1/4W
R555	1-214-798-21	METAL 1.8 1%	1/2W	R657	1-247-887-00	CARBON 220K 5%	1/4W
R557	1-215-894-11	METAL OXIDE 2.2K 5%	2W F	R658	1-249-416-11	CARBON 820 5%	1/4W
R559	1-215-438-00	METAL 5.1K 1%	1/4W	R659	1-247-895-91	CARBON 470K 5%	1/4W
R560	1-247-843-11	CARBON 3.3K 5%	1/4W	R660	1-249-429-11	CARBON 10K 5%	1/4W
R561	1-215-373-31	METAL 10 1%	1/4W	R661	1-249-417-11	CARBON 1K 5%	1/4W
R562	1-249-383-11	CARBON 1.5 5%	1/4W F	R662	1-249-410-11	CARBON 270 5%	1/4W
R563	1-215-888-00	METAL OXIDE 220 5%	2W F	R663	1-215-926-00	METAL OXIDE 33K 5%	3W F
R565	1-215-449-00	METAL 15K 1%	1/4W	R668	1-247-863-91	CARBON 22K 5%	1/4W
R566	1-215-438-00	METAL 5.1K 1%	1/4W	R669	1-215-467-00	METAL 82K 1%	1/4W
R567	1-214-798-21	METAL 1.8 1%	1/2W	R670	1-215-445-00	METAL 10K 1%	1/4W
R568	1-249-418-11	CARBON 1.2K 5%	1/4W	R671	1-215-445-00	METAL 10K 1%	1/4W
R569	1-249-441-11	CARBON 100K 5%	1/4W	R673	1-249-417-11	CARBON 1K 5%	1/4W
R570	1-247-807-31	CARBON 100 5%	1/4W	R674	1-249-417-11	CARBON 1K 5%	1/4W
R571	1-215-919-51	METAL OXIDE 2.2K 5%	3W F	R675	1-215-867-51	METAL OXIDE 470 5%	1W
R572	1-249-441-11	CARBON 100K 5%	1/4W	R676	1-215-429-91	METAL OXIDE 2.2K 1%	1/4W
R573	1-249-425-11	CARBON 4.7K 5%	1/4W	R677	1-247-869-91	CARBON 39K 5%	1/4W
R574	1-247-887-00	CARBON 220K 5%	1/4W	R678	1-215-859-00	METAL OXIDE 22 5%	1W F
R600	1-214-937-00	CARBON 1M 5%	1/2W	R679	1-215-859-00	METAL OXIDE 22 5%	1W F
R602	1-205-998-11	WIREWOUND 1 5%	10W	R680	1-215-412-00	METAL 430 1%	1/4W
R603	1-218-265-11	METAL 8.2M 5%	1W	R681	1-215-425-00	METAL 1.5K 1%	1/4W
R604	1-205-998-11	WIREWOUND 1 5%	10W	R682	1-247-857-91	CARBON 12K 5%	1/4W
R605	1-205-998-11	WIREWOUND 1 5%	10W	R683	1-249-417-91	CARBON 1K 5%	1/4W
R607	1-249-429-11	CARBON 10K 5%	1/4W				
R608	1-249-421-11	CARBON 2.2K 5%	1/4W				

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KV-28FD1/32FD1

D VM H1

REF.NO.	PART NO.	DESCRIPTION	REMARK
< RELAY >			
RY600	1-755-178-11	RELAY, AC POWER	
RY601	1-515-720-31	RELAY	
< SWITCH >			
S501	1-572-707-11	SWITCH, LEVER	
< TRANSFORMER >			
EF600	1-426-716-11	TRANSFORMER, LINE FILTER (LFT)	
T501	1-427-762-11	TRANSFORMER, FERRITE (HDT)	
T504	1-431-599-11	TRANSFORMER, HORIZONTAL LINEAR (KV-28FD1E/28FD1K)	
	1-431-600-11	TRANSFORMER, HORIZONTAL LINEAR (KV-32FD1E/32FD1K)	
T505	1-453-256-11	TRANSFORMER ASSY, FLYBACK (NY-4125/U2B4)	
T507	1-426-896-11	TRANSFORMER, FERRITE (DFT)	
T600	1-431-616-11	TRANSFORMER, CONVERTER	
T601	1-431-597-11	TRANSFORMER, CONVERTER (PIT)	
T651	1-431-598-11	TRANSFORMER, CONVERTER (SRT)	
< THERMISTOR >			
TH501	1-800-193-00	THERMISTOR	
THP600	1-810-961-11	THERMISTOR, POSITIVE	

*A-1644-081-A VM BOARD, COMPLETE			

	4-382-854-11	SCREW (M3X10), P, SW (+)	
< CAPACITOR >			
C1701	1-107-883-11	ELECT 330MF 20% 16V	
C1702	1-137-370-11	FILM 0.01MF 5% 50V	
C1703	1-126-935-11	ELECT 470MF 20% 16V	
C1704	1-126-935-11	ELECT 470MF 20% 6.3V	
C1706	1-126-933-11	ELECT 100MF 20% 16V	
C1707	1-126-935-11	ELECT 470MF 20% 6.3V	
C1708	1-104-989-91	FILM 0.0022MF 5% 200V	
C1709	1-104-989-91	FILM 0.0022MF 5% 200V	
C1710	1-107-649-11	ELECT 2.2MF 20% 250V	
C1711	1-137-364-11	FILM 0.001MF 5% 50V	
C1712	1-137-364-11	FILM 0.001MF 5% 50V	
C1713	1-126-933-11	ELECT 100MF 20% 16V	
C1714	1-107-363-91	FILM 0.0068MF 10% 200V	
C1715	1-126-933-11	ELECT 100MF 20% 16V	
C1716	1-107-638-11	ELECT 33MF 20% 160V	
C1717	1-162-117-00	CERAMIC 100PF 10% 500V	
< CONNECTOR >			
CN1701	*1-568-878-51	PIN, CONNECTOR 3P	
CN1702	*1-564-511-11	PLUG, CONNECTOR 8P	
CN1703	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P	
CN1705	1-695-915-11	TAB (CONTACT)	
< DIODE >			
D1701	8-719-991-33	DIODE 1SS133T-77	
D1702	8-719-510-02	DIODE D1NS4	
D1703	8-719-991-33	DIODE 1SS133T-77	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1704	8-719-991-33	DIODE 1SS133T-77	
D1705	8-719-991-33	DIODE 1SS133T-77	
D1706	8-719-924-11	DIODE MTZJ-T-77-22	
D1707	8-719-924-11	DIODE MTZJ-T-77-22	
< FERRITE BEAD >			
FB1701	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
< COIL >			
L1701	1-535-303-00	LEAD, JUMPER (5.0MM)	
< TRANSISTOR >			
Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1702	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1703	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1704	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
Q1705	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1706	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
Q1707	8-729-017-05	TRANSISTOR 2SA1837	
Q1708	8-729-017-06	TRANSISTOR 2SC4793	
< RESISTOR >			
R1701	1-249-401-11	CARBON 47 5% 1/4W	
R1702	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1703	1-535-303-00	LEAD, JUMPER (5.0MM)	
R1704	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1705	1-249-413-11	CARBON 470 5% 1/4W	
R1706	1-249-393-11	CARBON 10 5% 1/4W	F
R1707	1-249-399-11	CARBON 33 5% 1/4W	
R1708	1-247-807-31	CARBON 100 5% 1/4W	
R1709	1-249-417-11	CARBON 1K 5% 1/4W	
R1710	1-247-815-91	CARBON 220 5% 1/4W	
R1711	1-249-401-11	CARBON 47 5% 1/4W	
R1712	1-249-401-11	CARBON 47 5% 1/4W	
R1713	1-249-429-11	CARBON 10K 5% 1/4W	
R1714	1-249-414-11	CARBON 560 5% 1/4W	F
R1715	1-249-432-11	CARBON 18K 5% 1/4W	
R1716	1-249-432-11	CARBON 18K 5% 1/4W	
R1717	1-249-414-11	CARBON 560 5% 1/4W	
R1718	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1719	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1720	1-260-311-11	CARBON 39 5% 1/2W	
R1721	1-249-383-11	CARBON 1.5 5% 1/4W	F
R1722	1-249-383-11	CARBON 1.5 5% 1/4W	F
R1723	1-249-400-11	CARBON 39 5% 1/4W	F
R1724	1-215-914-11	METAL OXIDE 330 5% 3W	F

*A-1646-143-A H1 BOARD, COMPLETE			

	4-382-854-11	SCREW (M3X10), P, SW (+)	
< CAPACITOR >			
C901	1-101-810-00	CERAMIC 100PF 5% 500V	
C902	1-101-810-00	CERAMIC 100PF 5% 500V	
C903	1-137-372-11	FILM 0.022MF 5% 50V	
C904	1-137-372-11	FILM 0.022MF 5% 50V	
C905	1-101-810-00	CERAMIC 100PF 5% 500V	
C906	1-101-810-00	CERAMIC 100PF 5% 500V	

H1	H2	J
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REF.NO.	PART NO.	DESCRIPTION	REMARK
< CONNECTOR >			
CN901	*1-568-882-51	PIN, CONNECTOR 7P	
CN902	*1-568-882-51	PIN, CONNECTOR 7P	
CN903	*1-568-878-51	PIN, CONNECTOR 3P	
CN904	*1-568-881-51	PIN, CONNECTOR 6P	
CN905	*1-568-881-51	PIN, CONNECTOR 6P	
CN906	1-778-618-11	CONNECTOR, D-SUB (15P)	
< DIODE >			
D901	8-719-923-60	DIODE MTZJ-T-77-9.1	
D902	8-719-923-60	DIODE MTZJ-T-77-9.1	
D915	8-719-108-12	DIODE RD9.1EW-T1	
D916	8-719-108-12	DIODE RD9.1EW-T1	
D917	8-719-108-12	DIODE RD9.1EW-T1	
D918	8-719-108-12	DIODE RD9.1EW-T1	
< SOCKET >			
J901	1-764-606-11	JACK	
J902	1-568-678-11	TERMINAL BLOCK, S 3P	
J903	1-779-770-11	JACK, PIN 2P	
< COIL >			
L901	1-408-409-00	INDUCTOR 10UH	
L902	1-408-409-00	INDUCTOR 10UH	
L903	1-408-409-00	INDUCTOR 10UH	
L904	1-408-409-00	INDUCTOR 10UH	
L905	1-408-409-00	INDUCTOR 10UH	
L906	1-408-409-00	INDUCTOR 10UH	
< RESISTOR >			
R901	1-535-303-00	LEAD, JUMPER (5.0MM)	
R902	1-535-303-00	LEAD, JUMPER (5.0MM)	
R903	1-247-895-91	CARBON 470K 5%	1/4W
R904	1-247-895-91	CARBON 470K 5%	1/4W
R907	1-247-895-91	CARBON 470K 5%	1/4W
R908	1-247-895-91	CARBON 470K 5%	1/4W
R909	1-249-425-11	CARBON 4.7K 5%	1/4W
R910	1-249-421-11	CARBON 2.2K 5%	1/4W
R911	1-249-425-11	CARBON 4.7K 5%	1/4W
R912	1-249-421-11	CARBON 2.2K 5%	1/4W
R913	1-535-303-00	LEAD, JUMPER (5.0MM)	
R914	1-249-429-11	CARBON 10K 5%	1/4W
R915	1-249-429-11	CARBON 10K 5%	1/4W
R917	1-249-417-11	CARBON 1K 5%	1/4W
R918	1-249-417-11	CARBON 1K 5%	1/4W
R919	1-535-303-00	LEAD, JUMPER (5.0MM)	
R920	1-535-303-00	LEAD, JUMPER (5.0MM)	
R921	1-535-303-00	LEAD, JUMPER (5.0MM)	
< SWITCH >			
S901	1-571-532-21	SWITCH, TACTIL	
S902	1-571-532-21	SWITCH, TACTIL	
S903	1-571-532-21	SWITCH, TACTIL	
S904	1-571-532-21	SWITCH, TACTIL	
S905	1-571-532-21	SWITCH, TACTIL	
S906	1-571-532-21	SWITCH, TACTIL	

REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1646-144-A H2 BOARD, COMPLETE *****			
< CAPACITOR >			
C952	1-126-964-11	ELECT 10MF	20% 50V
< CONNECTOR >			
CN951	*1-568-879-11	PIN, CONNECTOR 4P	
< DIODE >			
D951	8-719-948-31	DIODE LD-201VR	
	*4-387-825-01	HOLDER, LED; D951	
< IC >			
IC951	8-742-010-11	IC SBX1780-51	
< RESISTOR >			
R951	1-247-815-91	CARBON 220 5%	1/4W
R952	1-249-401-11	CARBON 47 5%	1/4W

*A-1654-027-A J BOARD, COMPLETE *****			
4-039-356-01 SCREW (3X12), (+) BV TAPPING			
*4-203-828-01 SUPPORTER, PWB			
*4-203-829-01 HOLDER (A), J			
*4-203-830-01 HOLDER (B), J			
< CAPACITOR >			
C4201	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4202	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C4203	1-104-664-11	ELECT 47MF	20% 25V
C4204	1-104-664-11	ELECT 47MF	20% 25V
C4205	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4206	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4207	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C4208	1-104-664-11	ELECT 47MF	20% 25V
C4209	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4210	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4211	1-104-664-11	ELECT 47MF	20% 25V
C4213	1-104-664-11	ELECT 47MF	20% 25V
C4215	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4216	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C4217	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4218	1-126-933-11	ELECT 100MF	20% 16V
C4219	1-104-664-11	ELECT 47MF	20% 25V
C4220	1-126-933-11	ELECT 100MF	20% 16V
C4221	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4222	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4224	1-126-933-11	ELECT 100MF	20% 16V
C4225	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4227	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4228	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4229	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4230	1-136-161-00	FILM 0.047MF	5% 50V
C4232	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C4233	1-104-664-11	ELECT 47MF	20% 25V
C4234	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4236	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C4237	1-104-664-11	ELECT 47MF	20% 25V
C4240	1-164-346-11	CERAMIC CHIP 1MF	16V
C4241	1-104-664-11	ELECT 47MF	20% 25V
C4242	1-164-346-11	CERAMIC CHIP 1MF	16V
C4243	1-104-664-11	ELECT 47MF	20% 25V
C4244	1-126-933-11	ELECT 100MF	20% 16V
C4245	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C4246	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4247	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4248	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C4249	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4250	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4251	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4252	1-104-664-11	ELECT 47MF	20% 25V
C4253	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4254	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4255	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4256	1-104-664-11	ELECT 47MF	20% 25V
C4257	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4258	1-104-664-11	ELECT 47MF	20% 25V
C4259	1-104-664-11	ELECT 47MF	20% 25V
C4261	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4264	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C4265	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4266	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4267	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4269	1-104-664-11	ELECT 47MF	20% 25V
C4270	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C4271	1-104-664-11	ELECT 47MF	20% 25V
C4272	1-104-664-11	ELECT 47MF	20% 25V
C4275	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4277	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C4278	1-104-664-11	ELECT 47MF	20% 25V
C4279	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C4280	1-104-664-11	ELECT 47MF	20% 25V
C4281	1-104-664-11	ELECT 47MF	20% 25V
C4282	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4283	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4284	1-104-664-11	ELECT 47MF	20% 25V
C4285	1-104-664-11	ELECT 47MF	20% 25V
C4286	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C4287	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C4292	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4293	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4294	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C4295	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C4296	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C4297	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4298	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C4300	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C4305	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4309	1-104-664-11	ELECT 47MF	20% 25V

< CONNECTOR >

CN4201	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P
CN4202	*1-564-522-11	PLUG, CONNECTOR 7P
CN4204	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P
CN4205	*1-564-522-11	PLUG, CONNECTOR 7P
CN4208	*1-564-521-11	PLUG, CONNECTOR 6P
CN4209	*1-564-522-11	PLUG, CONNECTOR 7P

REF.NO.	PART NO.	DESCRIPTION	REMARK
< DIODE >			
D4201	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4202	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4203	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4204	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4205	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4206	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4207	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4208	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4209	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4210	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4211	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4212	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4213	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4214	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4215	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4216	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4217	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4218	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4219	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4220	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4221	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4222	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4223	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4224	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4225	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4226	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4227	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4228	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4229	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4230	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4232	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4233	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4234	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4235	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4236	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4237	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4238	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4239	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4240	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4241	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4242	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4243	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4244	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4245	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4246	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4252	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4253	8-719-923-60	DIODE MTZJ-T-77-9.1A	

< IC >

IC4201	8-759-330-93	IC TDA7309
IC4202	8-759-349-19	IC NJM3414AM-TE2
IC4203	8-752-066-69	IC CXA1845Q
IC4204	8-759-385-76	IC MC14052BDR2

< SOCKET >

J4201	1-561-534-41	SOCKET, PIN 21P
J4202	1-695-296-11	TERMINAL BLOCK, S
J4203	1-695-293-11	SOCKET 21P
J4204	1-695-293-11	SOCKET 21P
J4205	1-694-355-11	BOARD ASSY, D-SUB

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REF.NO.	PART NO.	DESCRIPTION	REMARK
J4206	1-774-747-11	JACK BLOCK, PIN	
J4207	1-537-979-11	TERMINAL BOARD	
J4209	1-774-363-11	JACK BLOCK, PIN	
J4210	1-774-366-11	JACK BLOCK, PIN	
< COIL >			
L4201	1-408-421-00	INDUCTOR 100UH	
L4202	1-408-421-00	INDUCTOR 100UH	
L4203	1-408-421-00	INDUCTOR 100UH	
L4205	1-402-711-11	INDUCTOR, WIDEBAND	
L4207	1-402-711-11	INDUCTOR, WIDEBAND	
L4209	1-408-421-00	INDUCTOR 100UH	
< TRANSISTOR >			
Q4201	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4202	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4203	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4204	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4205	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4206	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4207	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4208	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4209	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4210	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4214	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4215	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4216	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4217	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4219	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4220	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4221	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4222	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4223	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q4224	1-801-806-11	TRANSISTOR D7C144EKA	
< RESISTOR >			
JR7101	1-216-295-00	CONDUCTOR, CHIP	
JR7102	1-216-295-00	CONDUCTOR, CHIP	
JR7103	1-216-295-00	CONDUCTOR, CHIP	
JR7104	1-216-295-00	CONDUCTOR, CHIP	
JR7105	1-216-295-00	CONDUCTOR, CHIP	
JR7107	1-216-295-00	CONDUCTOR, CHIP	
JR7108	1-216-295-00	CONDUCTOR, CHIP	
JR7109	1-216-295-00	CONDUCTOR, CHIP	
R4201	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R4202	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R4203	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4204	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R4205	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R4206	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4207	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4208	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4209	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4210	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4211	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4212	1-216-033-00	METAL GLAZE 220 5%	1/10W
R4213	1-216-295-00	CONDUCTOR, CHIP	
R4214	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R4215	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R4216	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4217	1-216-049-00	METAL GLAZE 1K 5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R4218	1-216-033-00	METAL GLAZE 220 5%	1/10W
R4219	1-216-295-00	CONDUCTOR, CHIP	
R4220	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4221	1-216-009-00	METAL GLAZE 22 5%	1/10W
R4222	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R4223	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R4224	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4225	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
R4226	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4227	1-216-041-00	METAL GLAZE 470 5%	1/10W
R4228	1-216-041-00	METAL GLAZE 470 5%	1/10W
R4229	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R4231	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4232	1-216-295-00	CONDUCTOR, CHIP	
R4233	1-216-025-00	METAL GLAZE 100 5%	1/10W
R4235	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4236	1-216-295-00	CONDUCTOR, CHIP	
R4237	1-216-033-00	METAL GLAZE 220 5%	1/10W
R4238	1-216-033-00	METAL GLAZE 220 5%	1/10W
R4239	1-216-033-00	METAL GLAZE 220 5%	1/10W
R4240	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4241	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4242	1-216-033-00	METAL GLAZE 220 5%	1/10W
R4243	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4244	1-216-025-00	METAL GLAZE 100 5%	1/10W
R4245	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4246	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4247	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4248	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R4249	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R4250	1-216-295-00	CONDUCTOR, CHIP	
R4251	1-216-295-00	CONDUCTOR, CHIP	
R4252	1-216-025-00	METAL GLAZE 100 5%	1/10W
R4253	1-216-025-00	METAL GLAZE 100 5%	1/10W
R4254	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4255	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R4256	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R4259	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4260	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4261	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4262	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4263	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4264	1-216-295-00	CONDUCTOR, CHIP	
R4265	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4266	1-216-295-00	CONDUCTOR, CHIP	
R4267	1-216-295-00	CONDUCTOR, CHIP	
R4268	1-216-295-00	CONDUCTOR, CHIP	
R4269	1-216-295-00	CONDUCTOR, CHIP	
R4270	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R4271	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R4272	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R4273	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4274	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R4275	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4276	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4277	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R4278	1-216-033-00	METAL GLAZE 220 5%	1/10W
R4279	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4280	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4281	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4282	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R4283	1-216-033-00	METAL GLAZE 220 5%	1/10W
R4284	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4285	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4286	1-216-295-00	CONDUCTOR, CHIP	
R4287	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4288	1-216-295-00	CONDUCTOR, CHIP	
R4290	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R4291	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4292	1-216-295-00	CONDUCTOR, CHIP	
R4293	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4295	1-216-009-00	METAL GLAZE 22 5%	1/10W
R4296	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4297	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R4298	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4304	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4305	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R4307	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4308	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R4309	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R4310	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4316	1-216-025-00	METAL GLAZE 100 5%	1/10W
R4317	1-216-009-00	METAL GLAZE 22 5%	1/10W
R4318	1-216-025-00	METAL GLAZE 100 5%	1/10W
R4319	1-216-295-00	CONDUCTOR, CHIP	
R4320	1-216-295-00	CONDUCTOR, CHIP	
R4322	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4323	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4324	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4325	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4326	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4330	1-216-295-00	CONDUCTOR, CHIP	
R4331	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4332	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4334	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R4335	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4336	1-216-022-00	METAL GLAZE 75 5%	1/10W
R4337	1-216-033-00	METAL GLAZE 220 5%	1/10W
R4338	1-216-295-00	CONDUCTOR, CHIP	
R4339	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R4340	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4341	1-216-033-00	METAL GLAZE 220 5%	1/10W
R4342	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R4343	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4344	1-216-295-00	CONDUCTOR, CHIP	
R4345	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4346	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4347	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4348	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R4349	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4350	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4351	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R4352	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R4353	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4354	1-216-025-00	METAL GLAZE 100 5%	1/10W
R4355	1-216-025-00	METAL GLAZE 100 5%	1/10W
R4356	1-216-295-00	CONDUCTOR, CHIP	
R4357	1-216-295-00	CONDUCTOR, CHIP	
R4358	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4359	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4360	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R4361	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R4370	1-216-033-00	METAL GLAZE 220 5%	1/10W
R4371	1-216-033-00	METAL GLAZE 220 5%	1/10W
R4376	1-216-295-00	CONDUCTOR, CHIP	
R4377	1-216-295-00	CONDUCTOR, CHIP	
R4378	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R4379	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R4380	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R4381	1-216-101-00	METAL GLAZE 150K 5%	1/10W
R4382	1-216-101-00	METAL GLAZE 150K 5%	1/10W
R4383	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4384	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R4385	1-216-295-00	CONDUCTOR, CHIP	
R4386	1-216-295-00	CONDUCTOR, CHIP	
R4389	1-216-097-91	METAL GLAZE 100K 5%	1/10W
R4390	1-216-097-91	METAL GLAZE 100K 5%	1/10W

KV-28FD1/32FD1

The components identified by shading and marked Δ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
MISCELLANEOUS *****							
	1-416-851-11	COIL, DEGAUSSING	(KV-28FD1E/28FD1K)				
	1-416-850-11	COIL, DEGAUSSING	(KV-32FD1E/32FD1K)				
	1-452-032-00	MAGNET, DISK; 10MM \emptyset					
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM \emptyset					
	1-452-254-11	TRANSFORMER ASSY, FLYBACK	(BX-4125/U2B4)				
	1-505-790-11	SPEAKER (5CM)					
	1-505-791-11	SPEAKER (8CM)					
	1-452-896-71	COIL, NA ROTATION (RT-200)					
	1-572-433-21	SWITCH, PUSH (AC POWER)					
	1-693-340-21	TUNER/VIF (AEP)					
	1-754-688-11	CORD, POWER (WITH NOISE FILTER)					
	1-451-463-11	DEFLECTION YOKE (KV-28FD1E/28FD1K)					
	1-451-462-11	DEFLECTION YOKE (Y32RVE)	(KV-32FD1E/32FD1K)				
	1-453-015-11	NECK ASSY. (NE2913-M)					
	8-739-779-05	PICTURE TUBE (SD-299) (M66LLX010X)	(KV-28FD1E/28FD1K)				
	8-735-635-05	PICTURE TUBE (SD-302) (M76LLZ010X)	(KV-32FD1E/32FD1K)				
	1-782-856-11	CABLE, SPEAKER					
	1-251-317-31	CAP ASSY, HIGH VOLTAGE					

ACCESSORIES AND PACKING MATERIALS *****							
	4-203-909-71	MANUAL, INSTRUCTION (KV-28FD1E/32FD1E)	(SPANISH)				
	4-203-909-81	MANUAL, INSTRUCTION (KV-28FD1E/32FD1E)	(ENGLISH/FRENCH/GERMAN/ITALIAN/DUTCH/ GREEK/PORTUGUESE/FINNISH/DANISH NORWEGIAN/SWEDISH)				
	4-203-909-91	MANUAL, INSTRUCTION (KV-28FD1K/32FD1K)	(POLISH/CZECH/ENGLISH/BULGARIAN/HUNGARIAN)				
	4-203-919-01	INDIVIDUAL CARTON (KV-28FD1E/28FD1K)					
	4-060-018-01	INDIVIDUAL CARTON (KV-32FD1E/32FD1K)					
	4-203-918-01	CUSHION (LOWER) ASSY (KV-28FD1E/28FD1K)					
	4-060-021-01	CUSHION (LOWER) ASSY (KV-32FD1E/32FD1K)					
	4-203-917-01	CUSHION (UPPER) ASSY (KV-28FD1E/28FD1K)					
	4-060-020-01	CUSHION (UPPER) ASSY (KV-32FD1E/32FD1K)					
	4-046-772-01	BAG PROTECTION (KV-28FD1E/28FD1K)					
	4-060-976-01	BAG PROTECTION (KV-32FD1E/32FD1K)					
	4-396-077-01	JOINT (KV-32FD1E/32FD1K)					
REMOTE COMMANDER *****							
	1-475-444-11	COMMANDER, STANDARD TYPE (RM-864)					

SONY SERVICE MANUAL


GE-1 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-28FD1E	RM-864	AEP	SCC-N46B-A	KV-32FD1E	RM-864	AEP	SCC-N46A-A
KV-28FD1K	RM-864	OIRT	SCC-N47B-A	KV-32FD1K	RM-864	OIRT	SCC-N47A-A

CORRECTION - 1

SUBJECT : CORRECTION OF ERRORS

File this supplement with the service manual

 : Corrected portion

REFER PAGE 25

INCORRECT

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-862.

REFER PAGE 123

INCORRECT


VM

[REMOTE RECEIVER]

REFER PAGE 25

CORRECT

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-864. 

REFER PAGE 123

CORRECT

VM

[VM AMP Q.P.] 